

BARNARD COLLEGE



**The Undergraduate
College of Liberal
Arts for Women of
Columbia University**

**Announcement
1973-74**

**Morningside Heights
New York, N.Y. 10027**

The post office address is Barnard College, 606 West 120th Street, New York, N.Y. 10027. The telephone number is (Area Code 212) 280-1754.

Inquiries should be addressed as follows:

General matters pertaining to the College: **Office of the President**

Academic work of students: **Class Advisers**

Admission to the freshman class or with advanced standing; information about financial aid for entering students; request for Announcements: **Director of Admissions**

Alumnae: **Director of Alumnae Affairs**

Faculty and curriculum matters: **Office of Dean of the Faculty**

Financial aid and loan funds for students in college: **Director of Financial Aid**

Gifts or bequests: **Director of Development**

Health: **Director of Health Services**

Housing: **Director of Residence**

Notice of withdrawal: **Dean of Studies**

Opportunities for self-help; recommendations for employment: **Office of Placement and Career Planning**

Payment of College bills: **Bursar**

Public relations: **Director of Public Relations**

Requests for transcripts: **Registrar**

Student Activities: **Director of College Activities**

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Calendar for 1973-1974

1973

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1974

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Autumn Term 1973—Eighty-fifth Year

- August 31** Friday. Last day for filing applications for deferred examinations.
- September 4** Tuesday. Language Placement Examinations.
4-6 Tuesday through Thursday. Registration.
6 **Thursday. Classes begin 9 a.m.** Convocation, 1 p.m.
11-12 Tuesday and Wednesday. Deferred examinations for students absent from the May 1973 final examinations in Barnard courses.
17-21 Monday through Friday. Deferred examinations for students absent from the May 1973 final examinations in Columbia courses.
18-19 Tuesday and Wednesday. Program filing. Last day for adding a course.
26 Wednesday. Last day for submitting work for courses in which grades of Inc. (incomplete) were given in Fall 1972.
- October 12** Friday. Last day for filing diploma name cards for the degree in February 1974.
23 Tuesday. Midterm date.
24 Wednesday. Award of October degrees.
- November 1** Thursday. Last day for refund of Spring Term deposit.
5 **Monday. Academic Holiday.**
6 **Tuesday. Election Day. Holiday.**
8 Thursday. Required meetings for planning programs.
15 Thursday. Last day for filing requests for pass-fail grades. Last day for dropping a course.
21 Wednesday. Last day for filing tentative Spring Term programs
22-25 **Thursday through Sunday. Thanksgiving holidays.**
- December 5-7** Wednesday through Friday. Major examinations for February graduates.
7-12 Friday through Wednesday. Optional reading period.
13 Thursday. Required reading day.
14 Friday. Midyear examinations begin.
17 Monday. Last day for payment of bill for Spring Term.
21 **Friday. Autumn Term ends.**
22 Saturday, through January 20, 1974, Sunday. Winter recess. Residence halls closed.

Spring Term 1974

- January 21** Monday. Language Placement Examinations.
Classes begin 9 a.m.
- 21-22** Monday and Tuesday. Registration.
- 23** Wednesday. Last day for filing diploma name cards for the degree in May 1974.
- 31-** Thursday and Friday. Program filing. Last day for adding a
- February 1** course.
- February 11** Monday. Last day for submitting work for courses in which grades of Inc. (incomplete) were given in Spring 1973.
- 13** Wednesday. Award of February degrees.
- 15** Friday. Last day for filing applications for financial aid for 1974-1975.
 Last day for filing applications for deferred examinations.
- 18** Monday. Washington's Birthday. Holiday.
- March 4-5** Monday and Tuesday. Deferred examinations for students absent from the December 1973 final examinations in Barnard Courses.
- 7** Thursday. Midterm date.
- 9-17** Saturday through Sunday. Spring holidays.
- 18-22** Monday through Friday. Deferred examinations for students absent from the December 1973 final examinations in Columbia courses.
- 21** Thursday. Last day for filing requests for pass-fail grades.
 Last day for dropping a course.
- April 9** Tuesday. Required meetings for planning programs.
- 10-12** Wednesday through Friday. Major examinations for May and October graduates.
- 26-** Friday through Wednesday. Optional reading period.
- May 1**
- April 30** Tuesday. Last day for filing tentative Autumn Term programs.
 Last day for filing name cards for the degree in October 1974.
- May 1** Wednesday. Last day for payment of deposit for 1974-1975.
- 2** Thursday. Required reading day.
- 3** Friday. Final examinations begin.
- 10** Friday. Spring Term ends.
- 12** Sunday. Baccalaureate Service.
- 15** Wednesday. Conferring of degrees.



**Trustees of
Barnard College**

<i>Chairman</i>	Wallace S. Jones
<i>Vice-Chairman</i>	Francis T. P. Plimpton
<i>Vice-Chairman</i>	Robert L. Hoguet
<i>Clerk</i>	Dorothy (Mrs. Ralph) Hefferline
	Helen (Mrs. Frank) Altschul, <i>Emeritus Trustee</i>
	Katharine (Mrs. Hugh) Auchincloss
	Margaret (Mrs. Talcott) Bates
	June (Mrs. Jonathan) Bingham
	Cecile (Mrs. John A. H.) Carver
	Walter J. P. Curley, Jr.
	Eleanor (Mrs. John, Jr.) Elliott
	Richard M. Furlaud
	Ellen Futter
	Ruth (Mrs. Lewis) Goldenheim
	Roy M. Goodman
	Blanche (Mrs. Seymour) Graubard
	Iola S. Haverstick (Mrs.)
	Robert S. Hutchins
	Elizabeth (Mrs. Eliot) Janeway
	Jacques G. Maisonrouge
	William A. Marsteller
	President William J. McGill, <i>ex officio</i>
	Samuel R. Milbank
	Martha Peterson, <i>Honorary Trustee</i>
	Dorothy (Mrs. Sydney S.) Spivack
	Iphigene (Mrs. Arthur H.) Sulzberger, <i>Emeritus Trustee</i>
	Barbara M. Watson
	Catherine (Mrs. Frederick J.) Woodbridge

FACULTY REPRESENTATIVES TO MEET WITH TRUSTEES

Professor Annette Baxter
Professor Serge Gavronsky

STUDENT REPRESENTATIVES TO MEET WITH TRUSTEES

Susan Ladner
Linn Marks

The Faculty of Barnard College

Martha Peterson, 1967, *President of Barnard College and Dean in the University*

A.B., M.A., Ph.D., Kansas; LL.D., L.H.D.

LeRoy C. Breunig, 1953, *Dean of the Faculty and Professor of French*

A.B., DePauw; Ph.D., Cornell

Barbara S. Schmitter, 1957, *Dean of Studies and Associate Professor of Psychology*

A.B., Nebraska; M.A., Columbia

Helen H. Bacon, 1961, *Professor of Greek and Latin*

A.B., Ph.D., Bryn Mawr

Helen Phelps Bailey, 1933, *Professor of French*

A.B., Barnard; M.A., Ed.D., Columbia

Bernard Barber, 1952, *Professor of Sociology*

A.B., M.A., Ph.D., Harvard

Annette K. Baxter, 1952, *Professor of History*

A.B., Barnard; M.A., Smith, Radcliffe; Ph.D., Brown

Toby E. Berger, 1971, *Assistant Professor of Geography*

A.B., Barnard; M.A.T., Harvard; Ph.D., Columbia

Joan S. Birman, 1973, *Professor of Mathematics*

A.B., Barnard; M.A., Columbia; Ph.D., New York University

Vilma Bornemann, 1971, *Instructor in Spanish*

A.B., Barnard; M.A., Columbia

Brigitte L. Bradley, 1962, *Associate Professor of German*

A.B., William and Mary; D. d'Université, Strasbourg; M.A., Ph.D., Columbia

Alice Braunwarth, 1969, *Instructor in Physical Education*

A.B., Hunter; M.S., Springfield

Joseph Gerard Brennan, 1947, *Professor of Philosophy*

A.B., Boston College; M.A., Harvard; Ph.D., Columbia

Demetrios Caraley, 1961, *Professor of Political Science*

A.B., Ph.D., Columbia

Patricia Carpenter, 1961, *Associate Professor of Music*

A.B., California; Ph.D., Columbia

Luz Castaños, 1967, *Associate in Spanish*

A.B., M.A., Hunter

Elizabeth Louise Caughran, 1956, *Associate in English*

A.B., Russell Sage; M.A., Columbia

Joy Chute, 1964, *Adjunct Associate Professor of English*

Edward S. Cobb, 1963, *Assistant Professor of Psychology*

A.B., M.A., Ph.D., Columbia

Jonathan R. Cole, 1973, *Associate Professor of Sociology*

A.B., Ph.D., Columbia

The dates refer to the beginning of service in the College and not necessarily to the assumption of the current title.

- William A. Corpe, 1956, *Professor of Biology*
A.B., M.A., Wisconsin; Ph.D., Pennsylvania State
- Dennis G. Dalton, 1969, *Associate Professor of Political Science*
A.B., Rutgers; M.A., Chicago; Ph.D., London
- Elizabeth C. Dalton, 1965, *Associate in English*
A.B., California; M.A., Ohio State
- Lynn Davis, 1970, *Assistant Professor of Political Science*
A.B., Duke; M.A., Ph.D., Columbia
Absent on leave, 1973-74.
- Bette Stubing Denich, 1968, *Assistant Professor of Anthropology*
A.B., Antioch; Ph.D., California
- Samuel Devons, 1970, *Professor of Physics*
B.A., M.A., Ph.D., Cambridge University
- Maria Grazia Di Paolo, 1973, *Instructor in Italian*
A.B., Hunter; M.A., Columbia
- Marjorie Housepian Dobkin, 1957-59; 1960, *Associate in English*
A.B., Barnard; M.A., Columbia
- Hubert Doris, 1957, *Professor of Music*
A.B., Harvard; M.A., Columbia
Absent on leave, Spring Term.
- Sigalia Dostrovsky, 1971, *Assistant Professor of Physics*
A.B., Vassar; M.A., Ph.D., Princeton
- Patricia L. Dudley, 1959, *Associate Professor of Biology*
A.B., M.A., Colorado; Ph.D., Washington
- Lois A. Ebin, 1969, *Assistant Professor of English*
A.B., Smith; M.A., Ph.D., Columbia
- David W. Ehrenfeld, 1967, *Associate Professor of Biology*
A.B., M.D., Harvard; Ph.D., Florida
- Hester A. Eisenstein, 1970, *Coordinator of the Experimental College*
A.B., Radcliffe; M.A., Ph.D., Yale
- Ann Fagan, 1969, *Assistant Professor of History*
A.B., Carleton; Ph.D., Bryn Mawr
- Bruce Feld, 1968, *Associate in Political Science and Urban Studies*
B.B.A., Miami; M.A., Rutgers
- Daniel Field, 1970, *Assistant Professor of History*
A.B., M.A., Ph.D., Harvard
- Barbara M. Fitts, 1969, *Instructor in Physical Education*
B.S., Boston
- Annette B. Fox, 1966, *Lecturer in Political Science*
A.B., Ph.D., Chicago

- Richard M. Friedberg, 1968, *Associate Professor of Physics*
A.B., *Harvard*; M.A., Ph.D., *Columbia*
- Serge Gavronsky, 1960, *Associate Professor of French*
A.B., M.A., Ph.D., *Columbia*
- Renée Geen, 1956, *Associate Professor of French*
A.B., *Brooklyn*; M.A., *Wisconsin*; Ph.D., *Columbia*
- Sandra Genter, 1961, *Associate in Physical Education*
A.B., *Wisconsin*; M.A., *Columbia*
- Marion Hamilton Gillim, 1952, *Professor of Economics*
A.B., *Mount Holyoke*; M.A., Ph.D., *Columbia*
- Jean A. Gooch, 1964, *Associate Professor of Economics*
A.B., *California*; M.A., Ph.D., *Columbia*
- Jane Grace, 1967-69; 1971, *Instructor in French*
A.B., *Emory*; M.A., *Columbia*
- Patricia Albjerg Graham, 1965, *Professor of Education*
B.S., M.S., *Purdue*; Ph.D., *Columbia*
- Tatiana Greene, 1946, *Associate Professor of French*
Candid. en Droit, Brussels; M.A., Ph.D., *Columbia*
Absent on leave, Spring Term.
- Richard F. Gustafson, 1965, *Professor of Russian*
A.B., *Yale*; Ph.D., *Columbia*
Absent on leave, Autumn Term.
- Danielle Haase-Dubosc, 1962, *Assistant Professor of French*
A.B., *Barnard*; M.A., Ph.D., *Columbia*
- Elizabeth Hardwick, 1965, *Adjunct Associate Professor of English*
A.B., M.A., *Kentucky*
- Lars-Alvar Jacobson, 1972, *Assistant Professor of Linguistics*
B.A., Ph.D., *Stockholm*
- Kenneth H. Janes, 1961, *Associate Professor of English and Director of Minor Latham Playhouse*
- Peter H. Juviler, 1964, *Associate Professor of Political Science*
B.E., M.E., *Yale*; M.A., Ph.D., *Columbia*
- Hannah Kahn, 1972, *Instructor in Physical Education*
B.F.A., *Juilliard School of Music*
- George W. Kelling, 1972, *Assistant Professor of Psychology*
B.A., Ph.D., *Colorado*
- Edward J. King, 1946, *Professor of Chemistry*
A.B., *State University of Iowa*; Ph.D., *Yale*
Absent on leave, 1973-74.
- Grace W. King, 1960, *Lecturer in Chemistry*
A.B., *Maine*; Ph.D., *Yale*
Absent on leave, 1973-74.

- Ruth M. Kivette, 1952, *Associate Professor of English*
A.B., Barnard; M.A., Ph.D., Columbia; B.D., Union Theological Seminary
 Absent on leave, Spring Term.
- Morton Klass, 1965, *Professor of Anthropology*
A.B., Brooklyn; Ph.D., Columbia
- Susan Koslow, 1972, *Assistant Professor of Art History*
A.B., Barnard; M.A., Ph.D., New York University
- Stephen E. Koss, 1966, *Professor of History*
A.B., M.A., Ph.D., Columbia
- John Kouwenhoven, 1946, *Professor of English*
A.B., Wesleyan; M.A., Ph.D., Columbia
 Absent on leave, Autumn Term.
- Jacqueline I. Kroschwitz, 1968, *Assistant Professor of Chemistry*
B.S., Ursinus; Ph.D., Pennsylvania
- Maire S. Kurrik, 1968, *Assistant Professor of English*
A.B., Vassar; Ph.D., Harvard
- Patricia H. Labalme, 1961-64; 1965, *Lecturer in History*
A.B., Bryn Mawr; M.A., Ph.D., Radcliffe
- John F. Lad, 1971, *Assistant Professor of Philosophy*
A.B., Case Western Reserve; Ph.D., Stanford
- Sue Howard Larson, 1965, *Associate Professor of Philosophy*
A.B., Ph.D., Stanford
- Gordana Lazarevich, 1969, *Assistant Professor of Music*
M.S., Juilliard; Ph.D., Columbia
- Marina Ledkovsky, 1969, *Assistant Professor of Russian*
Ph.D., Columbia
- Ethna Lehman, 1968, *Assistant Professor of Sociology*
A.B., College of New Rochelle; M.A., Fordham
- Lydia H. Lenaghan, 1962, *Associate Professor of Greek and Latin*
A.B., Barnard; M.A., Ph.D., Bryn Mawr
 Absent on leave, Autumn Term.
- Linda Lerner, 1968, *Instructor in Physical Education*
B.S., Skidmore; M.A., Columbia
- Darline G. Levy, 1973, *Assistant Professor of History*
A.B., Barnard; Ph.D., Harvard.
- Naomi Loeb Lipman, 1952-1966, 1972, *Instructor in English*
A.B., Barnard; M.A., Columbia
- Cynthia B. Lloyd, 1970, *Assistant Professor of Economics*
A.B., Bryn Mawr; M.A., Ph.D., Columbia
- Maristella de Panizza Lorch, 1951, *Professor of Italian*
Dott. in Lett. e Filos, Rome
- Julia L. Makarushka, 1971, *Assistant Professor of Sociology*
A.B., LeMoyne; Ph.D., Columbia

Joseph L. Malone, 1967, *Associate Professor of Linguistics*
A.B., M.A., Ph.D., *California*

Joseph Masheck, 1971, *Instructor in Art History*
A.B., A.M., *Columbia*

Edith Mason, 1956, *Associate in Physical Education*
B.S., *Winthrop*; M.S., *Louisiana State*

Ruth M. Mathewson, 1964, *Instructor in English*
A.B., *Vassar*

Allen Maxwell, 1972, *Instructor in Anthropology*
B.A., M.A., *Michigan*

Alexander R. Mazziotti, 1970, *Assistant Professor of Chemistry*
B.S., *Seton Hall*; Ph.D., *Pennsylvania State*

Robert A. McCaughey, 1969, *Assistant Professor of History*
A.B., *Rochester*; M.A., *North Carolina*; Ph.D., *Harvard*

Elisabeth McLaughlin, 1970, *Instructor in German*
B.S., M.A., *Columbia*

Maya Devi Menon, 1972, *Assistant Professor of Biological Sciences*
B.Sc., M.A., *Madras*; Ph.D., *California*

Astrid E. Merget, 1972, *Assistant Professor of Political Science and Urban Studies*
A.B., *Mount Holyoke*; M.P.A., Ph.D., *Syracuse*

John Meskill, 1960, *Professor of Chinese and Japanese*
A.B., *Harvard*; Ph.D., *Columbia*

Gladys Meyer, 1948, *Professor of Sociology*
A.B., *Wellesley*; Ph.D., *Columbia*

Deborah D. Milenkovitch, 1965, *Associate Professor of Economics*
A.B., *Radcliffe*; Ph.D., *Columbia*

Absent on leave, 1973-74.

Barbara S. Miller, 1968, *Associate Professor of Oriental Studies*
A.B., *Barnard*; M.A., *Columbia*; Ph.D., *Pennsylvania*

Joann Ryan Morse, 1957, *Associate Professor of English*
A.B., *Vassar*; M.A., *Yale*

Mary Mothersill, 1963, *Professor of Philosophy*
A.B., *Toronto*; M.A., Ph.D., *Radcliffe*

Onora S. Nell, 1970, *Assistant Professor of Philosophy*
B.A., *Oxford*; Ph.D., *Harvard*

Richard A. Norman, 1954, *Associate Professor of English*
A.B., *George Washington*; M.A., Ph.D., *Columbia*

Barbara Novak, 1958, *Professor of Art History*
A.B., *Barnard*; M.A., Ph.D., *Radcliffe*

Dorothea Nyberg, 1968, *Associate Professor of Art History*
A.B., Toronto; M.A., Ph.D., New York University

Maria March de Orti, 1965-67; 1968, *Assistant Professor of Spanish*

A.B., California; M.A., Washington; Ph.D., Columbia

Elaine H. Pagels, 1970, *Assistant Professor of Religion*

A.B., M.A., Stanford; Ph.D., Harvard

Remington P. Patterson, 1955, *Associate Professor of English*

A.B., M.A., Ph.D., Yale

Thomas B. Perera, 1966, *Assistant Professor of Psychology*

A.B., M.A., Ph.D., Columbia

Frederick G. Peters, 1970, *Assistant Professor of German*

A.B., Pennsylvania; M.A., Columbia; B.Litt., Oxford; Ph.D., Cambridge

Marion R. Philips, 1945-55; 1958, *Assistant Professor of Physical Education*

A.B., Hunter; M.A., Columbia

Richard M. Pious, 1972, *Assistant Professor of Political Science*

B.A., Colby; Ph.D., Columbia

Anne Lake Prescott, 1959-62; 1963, *Assistant Professor of English*

A.B., Barnard; M.A., Ph.D., Columbia

Basil Rauch, 1941, *Professor of History*

A.B., Notre Dame; Ph.D., Columbia

Inez Smith Reid, 1969-70; 1971, *Associate Professor of Political Science*

A.B., Tufts; LL.B., Yale; M.A., California; Ph.D., Columbia

Hermine Riffaterre, 1961, *Assistant Professor of French*

A.B., Hunter; M.A., Columbia; B. ès L., Toulouse; Ph.D., Columbia

Donald D. Ritchie, 1948, *Professor of Biology*

A.B., B.S., Furman; M.A., Ph.D., North Carolina

David A. Robertson, Jr., 1940, *Millicent Carey McIntosh Professor of English*

A.B., M.A., Ph.D., Princeton

Jeanette Schlottman Roosevelt, 1951-58; 1962, *Associate Professor of Physical Education*

B.S., M.A., Texas Woman's University

Jane H. Rosenthal, 1952-55; 1971, *Instructor in Art History*

A.B., Douglass

Abraham Rosman, 1966, *Professor of Anthropology*
A.B., *City University of New York*; Ph.D., *Yale*

R. Christine Royer, 1965, *Associate in English*
A.B., *Western Maryland*; M.A., *Pennsylvania*

Paula G. Rubel, 1965, *Associate Professor of Anthropology*
A.B., *Hunter*; Ph.D., *Columbia*

Susan R. Sacks, 1971, *Assistant Professor of Education and Psychology*
A.B., *Northwestern*; M.A., *Western Reserve*

Gertrud M. Sakrawa, 1952, *Associate Professor of German*
M.A., *Columbia*; Ph.D., *Vienna, Columbia*

John E. Sanders, 1969, *Professor of Geology*
A.B., *Ohio Wesleyan*; Ph.D., *Yale*

Anatol K. Sapronow, 1966, *Associate in Russian*
Russian Gymnasium, Belgrade

Marianna Greene Sapronow, 1967, *Instructor in Russian*
Russian Gymnasium, Munich

Frances Fuchs Schachter, 1972, *Assistant Professor of Psychology*
A.B., *Barnard*; Ph.D., *Rochester*

Bernice Segal, 1958, *Associate Professor of Chemistry*
A.B., *Radcliffe*; Ph.D., *Columbia*

Mirella d'Ambrosio de Servodidio, 1964, *Associate Professor of Spanish*
A.B., *Barnard*; M.A., Ph.D., *Columbia*
Absent on leave, Autumn Term.

Ann C. Sheffield, 1969, *Assistant Professor of Greek and Latin*
A.B., *Smith*; M.A., Ph.D., *Stanford*

Maurice Z. Shroder, 1965, *Professor of French*
B.S., *Northwestern*; M.A., Ph.D., *Harvard*

Garrett A. Smith, Jr., 1970, *Instructor in Geography*
A.B., *Rochester*; M.A., *Harvard*

Lynda D. Snead, 1971, *Instructor in French*
A.B., *Skidmore*; M.A., *Columbia*

John B. Snook, 1968, *Assistant Professor of Religion*
A.B., *Harvard*; B.D., *Union Theological Seminary*; Ph.D., *Columbia*

Domna Callimanopulos Stanton, 1962, *Assistant Professor of French*

A.B., Wellesley; M.A., Ph.D., Columbia

Absent on leave, Autumn Term.

Catharine R. Stimpson, 1963, *Assistant Professor of English*

A.B., Bryn Mawr; B.A., Cambridge; Ph.D., Columbia

Howard M. Teichmann, 1946, *Adjunct Professor of English*

A.B., Wisconsin

Patricia Terry, 1958, *Lecturer in French*

A.B., Wellesley; M.A., Ph.D., Columbia

Janice Farrar Thaddeus, 1956, *Assistant Professor of English*

A.B., Barnard; M.A., Ph.D., Columbia

Eleanor M. Tilton, 1950, *Professor of English*

A.B., Mount Holyoke; M.A., Boston; Ph.D., Columbia

Zoya A. Trifunovich, 1959, *Associate in Russian*

B.S., M.A., Columbia

Margarita Ucelay, 1943, *Professor of Spanish*

Bach. Instituto-Escuela de Madrid; M.A., Ph.D., Columbia

Barry Ulanov, 1951, *Professor of English*

A.B., Ph.D., Columbia; Litt.D., Villanova

Joan E. Vincent, 1968, *Associate Professor of Anthropology*

B.Sc., London School of Economics; M.A., Chicago; Ph.D., Columbia

Absent on leave, 1973-74.

Frederick E. Warburton, 1963, *Associate Professor of Biology*

B.Sc., M.Sc., Ph.D., McGill

Marcia L. Welles, 1970, *Assistant Professor of Spanish*

A.B., Barnard; M.A., Middlebury; Ph.D., Columbia

Suzanne F. Wemple, 1966, *Associate Professor of History*

A.B., California; M.L.S., Ph.D., Columbia

Katherine E. Wilcox, 1971, *Associate in Education*

A.B., City College of New York

Chilton Williamson, 1942, *Professor of History*

A.B., M.A., Ph.D., Columbia

Richard Youtz, 1937, *Professor of Psychology*

A.B., Carleton; Ph.D., Yale

Leonard Zobler, 1955, *Professor of Geography*

B.S., M.S., Washington State; Ph.D., Columbia

Forrest L. Abbott, 1953, *Treasurer and Controller*

B.S., Southwest Missouri State Teachers; M.A., Ed.D., Columbia

Mary Helen McMahon, 1969, *Registrar*
B.S., M.A., Saint Louis
Robert B. Palmer, 1967, *Librarian*
M.A., Middlebury; M.S., Simmons
Natalie Sonevytsky, 1959, *Reference Librarian*
A.B., New Rochelle; M.S., Columbia

Faculty Emeriti

William Haller, 1909-1950, *Professor Emeritus of English*
Ph.D., L.H.D.
Helen R. Downes, 1933-1960, *Professor Emeritus of Chemistry*
Ph.D.
Amelia A. de del Rio, 1930-1962, *Professor Emeritus of Spanish*
Ph.D.
Millicent C. McIntosh, 1947-1962, *President Emeritus*
Ph.D., LL.D., Litt.D., L.H.D.
Margaret Holland, 1926-1964, *Professor Emeritus of Physical*
Education
M.A.
Thomas P. Peardon, 1923-1965, *Professor Emeritus of Political*
Science
Ph.D.
Esther Greene, 1944-1967, *Librarian Emeritus*
A.B., B.S.
Lucyle Hook, 1948-1967, *Professor Emeritus of English*
Ph.D.
Marion Lawrence, 1929-1967, *Professor Emeritus of Art History*
Ph.D.
René Albrecht-Carrié, 1945-1969, *Professor Emeritus of History*
Ph.D.
Eugenio Florit, 1945-1969, *Professor Emeritus of Spanish*
D. en D.
Virginia D. Harrington, 1942-1969; *Professor Emeritus of*
History
Ph.D.
Jean T. Palmer, 1946-1969, *General Secretary Emeritus*
A.B.
Henry A. Boorse, 1937-1970, *Professor Emeritus of Physics*
and Dean Emeritus of the Faculty
Ph.D.
Julius S. Held, 1936-1970, *Professor Emeritus of Art History*
Ph.D.
Mirra Komarovsky, 1934-1970, *Professor Emeritus of Sociology*
Ph.D.

Emma Dietz Stecher, 1945-1971, *Professor Emeritus of Chemistry*
Ph.D.

Theodor H. Gaster, 1966-1972, *Professor Emeritus of Religion*
Ph.D., D.D., L.H.D., Litt.D.

Eleanor Rosenberg, 1953-1973, *Professor Emeritus of English*
Ph.D.

Raymond J. Saulnier, 1938-1973, *Professor Emeritus of*
Economics
Ph.D., LL.D.

George Woodbridge, 1960-1973, *Professor Emeritus of History*
Ph.D.

**Visiting
Faculty**

Christopher S. George, *Adjunct Associate Professor of Religion*
B.S., Columbia; Ph.D., Pennsylvania

Donald E. Hutchings, 1972, *Adjunct Assistant Professor of*
Psychology

A.B., Lake Forest; M.A., Ph.D., Chicago

Adelbert H. Jenkins, 1969, *Adjunct Assistant Professor of*
Psychology

A.B., Antioch; M.A., Ph.D., Michigan

Myriam Malinovich, 1972, *Adjunct Assistant Professor of*
Philosophy

A.B., California; Ph.D., Columbia

Brian O'Doherty, 1970, *Adjunct Professor of Art History*

M.B., M.C.H., D.P.H., University College, Dublin; M.Sc., Harvard

Albert W. Sadler, 1970, *Adjunct Professor of Religion*

A.B., Hobart; M.A., Ph.D., Columbia-Union Theological Seminary

**Other Officers
of Instruction**

Victor F. Barr, 1967, *Visiting Artist in Art History*
B.F.A., Yale

Vassilios Christides, 1971, *Lecturer in Modern Greek*

M.A., U.C.L.A.; Ph.D., Princeton

Constance T. Colby, 1972, *Instructor (Part-time) in English*
B.A., M.A., Michigan

Flora S. Davidson, 1973, *Instructor (Part-time) in Political*
Science

A.B., Barnard

Marie Denise Francia, 1973, *Assistant Professor (Part-time) of*
Chemistry

B.A., Cornell; Ph.D., Pennsylvania

Ralph D. Grishman, 1971, *Instructor (Part-time) in Mathematics*
A.B., Columbia

Janet C. Hannigan, 1971, *Assistant Professor (Part-time) of*
Political Science

A.B., North Carolina; Ph.D., Columbia

Wendy Hilton, 1973, *Instructor (Part-time) in Program in the Arts*

Bona Kostka, 1962-63; 1969, *Instructor (Part-time) in Medieval and Renaissance Studies*
Dott. in Lett., Rome

Anya Luchow, 1970, *Instructor (Part-time) in Russian*
A.B., Barnard

Frank A. Moretti, 1971, *Associate (Part-time) in Education*
A.B., Bonaventure; M.A., Columbia

Dennis B. Parichy, 1969, *Technical Director, Minor Latham Playhouse*
B.S., Northwestern

Lang Hoan Pham, 1972, *Instructor (Part-time) in French*
A.B., Smith; M.A., Columbia

Milton Resnick, 1972, *Visiting Artist in Art History*

Peter Schubert, 1970, *Instructor (Part-time) in Music*
A.B., Columbia

Sister Mary Elizabeth, 1969-70; 1972, *Lecturer in History*
B.A., M.A., Buffalo; Ph.D., Chicago

Janet Soares, 1968, *Associate in Dance*
B.S., Juilliard

Walter Sorell, 1969, *Lecturer in Dance*
A.B., M.F.A., Columbia
Absent on leave, 1973-74.

Beverly M. Spatt, 1971, *Associate (Part-time) in Geography*
A.B., Pembroke; M.A., New York University

Quandra P. Stadler, 1970, *Associate (Part-time) in English*
A.B., Antioch

Sandra Stingle, 1967, *Instructor (Part-time) in Psychology*
A.B., Barnard

**Officers of
Administration**

Martha Peterson, Ph.D., L.H.D., LL.D., *President of Barnard College and Dean in the University*

LeRoy C. Breunig, Ph.D., *Dean of the Faculty and Professor of French*

Barbara S. Schmitter, M.A., *Dean of Studies and Associate Professor of Psychology*

Forrest L. Abbott, Ed.D., *Treasurer and Controller*

**Office of the
President**

Jane Moorman, Ph.D., *Assistant to the President*

Joan B. Reid, *Assistant to the President*

Novella I. Landau, *Secretary to the President*

**Office of the Dean
of the Faculty**

Bruce Feld, M.A., *Associate Dean of the Faculty*

Virginia Shaw, A.B., *Director of Institutional Studies and Secretary to the Faculty*

Julie Marsteller, A.B., *College Archivist*

**Office of the Dean
of Studies**

Marjorie H. Dobkin, M.A., *Associate Dean of Studies and Adviser to the Class of 1974*

Katherine E. Wilcox, A.B., *Assistant to the Dean of Studies and Adviser to the Class of 1976*

Lynda Snead, M.A., *Adviser to the Class of 1975*

Toby Berger, Ed.D., *Adviser to the Classes of 1976, 1977*

Anya Luchow, A.B., *Adviser to the Classes of 1976, 1977*

Frank Moretti, M.A., *Adviser to the Classes of 1976, 1977*

Sandra Stingle, A.B., *Adviser to the Classes of 1976, 1977*

Vilma Bornemann, *Adviser to the Class of 1977*

Zoya Trifunovich, *Foreign Student Adviser*

Esther Rowland, *Preprofessional Adviser*

Sarah Nieves, *Director of Higher Education Opportunity Program*

**Office of the
Treasurer and
Controller**

Helen Vanides, *Executive Assistant*

**Office of
Admissions**

Helen M. McCann, A.B., *Director*

Margaret Dykes Dayton, M.A., *Associate Director*

Dorothy U. Denburg, A.B., *Assistant Director*

**Office of the
Associate Alumnae**

Nora L. Percival, A.B., *Director*

Amy Palmer, A.B., *Administrative and Editorial Assistant*

**Office of Buildings
and Grounds**

John G. Kiessling, *Manager of Plant and Operations*

Margaret V. O'Shea, *Supervisor of Building Services*

Salvadore R. Delgado, *Assistant Supervisor of Building Services*

Office of the Bursar

Frances A. Barry, M.S., *Bursar*

Linda F. Mathison, B.S., *Assistant Bursar*

Violet Parnass, *Executive Assistant*

Office of College Activities	Claire C. Fay, M.A., <i>Director</i>
Development Office	Barbara V. Hertz, A.B., <i>Director</i> Eleanor Mintz, A.B., <i>Director, Barnard Fund</i> Janice C. Pries, A.B., <i>Director of Research</i> Jeannette Parks, <i>Records Administrator</i>
Financial Aid	Theodore P. Stock, M.A., <i>Director</i>
Health Services	Harriette R. Mogul, M.D., <i>Director</i> Annelore Butler, M.D., <i>Assistant Director</i> Lestra M. Carpé, M.D., <i>Staff Internist</i> Steven Boris, M.D., <i>Consulting Pediatrician</i> Mel Stern, M.D., <i>Consultant Adolescent Medicine</i> Karen Hein, M.D., <i>Consultant Adolescent Medicine</i> Steven Halperin, M.D., <i>Consulting Dermatologist</i> Antonio Calanog, M.D., <i>Consulting Gynecologist</i> Camillo L. Gugliucci, M.D., <i>Consulting Gynecologist</i> Zira De Fries, M.D., <i>College Psychiatrist</i> Barbara Gibbs, M.D., <i>Consulting Psychiatrist</i> Lilo R. Grothe, Ph.D., <i>Psychiatric Counselor</i> Denise Saks, J.S.D., M.A., M.S., <i>Psychiatric Counselor</i> Lela Anderson, R.N., <i>Nurse</i>
Language Laboratory	Ersi L. Breunig, <i>Director</i>
Library	Robert B. Palmer, M.A., M.S., <i>Librarian</i> Natalie Sonevytsky, M.S., <i>Reference Librarian</i> Elizabeth M. Corbett, M.S., <i>Circulation Librarian</i> Patricia K. Ballou, A.B., B.S., <i>Technical Services Librarian</i> Mary J. Kelly, M.S., <i>Order Librarian</i> Lynne M. Brody, M.S., <i>Reserve Librarian</i> Stephanie M. Krstulovic, <i>Technical Services Librarian</i>
Office Services	Winifred Price, <i>Director</i> Myrtle Tate, <i>Assistant to the Director</i>
Personnel Office	Margaret B. Lowe, M.A., <i>Director</i> Barbara B. Tracy, <i>Administrative Assistant</i>
Office of Placement and Career Planning	Jane S. Gould, M.A., <i>Director</i> Lynn H. Stephens, M.A., <i>Assistant Director</i> Hilary F. Knatz, M.A., <i>Executive Assistant</i>
Office of Public Relations	Sarah W. Johnson, M.A., <i>Director</i> Ann S. Sentilles, M.S., <i>Assistant Director</i>
Office of Purchasing	Mary Bane, <i>Manager of Purchasing</i>
Office of the Registrar	Mary Helen McMahon, M.A., <i>Registrar</i> Doris Campbell, A.B., <i>Assistant Registrar</i>

Officers of Administration

Office of Residence

Blanche E. Lawton, M.A., *Director*

Phyllis D. Zadra, M.S., *Resident Director, Residence Halls*

Joanne Colozzi, M.A., *Resident Director, Plimpton Hall*

James Weikart, M.A., *Resident Director, 600, 616, 620*

John Finn, *Coordinator of Residence Services*

Monica Smith, *Administrative Assistant*

Office of Safety and Security

Raymond E. Boylan, *Director*

Women's Center

Jane S. Gould, M.A., *Acting Director*

Mary Wexford, A.B., *Administrative Assistant*



Barnard's History

Barnard College was among the pioneers in the late nineteenth century crusade to make higher education available to young women. The history of its achievement is an integral part of the history of Columbia University.

The University had its origin in a royal charter, granted in 1754 by George II, creating King's College. Its operations were interrupted during the Revolutionary War when its buildings were requisitioned by the Continental Armies, but it was reopened in 1784 as Columbia College and, in 1896, was designated a university.

Barnard College grew out of the idea, first proposed by Columbia's tenth president, Frederick A. P. Barnard, that young women be admitted to Columbia. Initially ignored, the idea was developed by President Barnard until it led to the creation of a "Collegiate Course for Women." Under the new plan highly qualified women were authorized to follow a prescribed course leading ultimately to a Columbia degree, but no provision was made for where and how they were to pursue their studies. Destined to fail, this arrangement was abandoned six years later when Columbia's trustees agreed to the establishment of an affiliated college for women. A provisional charter and the promise of funds were secured, and Barnard College was named in honor of its earliest and most persistent advocate.

In October 1889, the first Barnard class met in a rented brownstone house at 343 Madison Avenue with fourteen students enrolled in the School of the Arts, twenty-two "specials" enrolled in science because they lacked the entrance requirements in Greek, and a faculty of six.

Nine years later Barnard moved to its present site on Morning-side Heights, and in 1900 was incorporated in the educational system of Columbia University with provisions which at that time were unique among women's colleges: it was to be governed by its own Trustees, Faculty, and Dean, and was responsible for its own endowment and plant, while sharing the instruction, the library, and the degrees of a university.

Barnard Today

In contrast to the pioneer days, Barnard today has a teaching staff of almost 200 men and women: outstanding scholars whose primary concern is the education of the undergraduate students at the College, and many of whom bring an added vitality to their teaching from their professional activities outside the classroom. From the original fourteen matriculated students, enrollment has increased to almost 2,000; since 1893

Columbia has awarded its degree to 16,786 Barnard students. The original pledges of support have expanded to current endowment funds of \$19,059,000.

A new agreement adopted by the Barnard and the Columbia Boards of Trustees in February calls for increased cooperation without assimilation between the two institutions. While Barnard maintains its identity as an independent liberal arts college for women with its own curriculum, faculty, admissions standards, and graduation requirements, it shares the resources of the University. Barnard students have open access to Columbia courses and, as an affiliate of the University, Barnard shares faculty, libraries and facilities with Columbia.

The Curriculum

Specific requirements for the degree are outlined on pages 36-39. Assistance in planning her individual course of study is given by the student's class adviser, a member of the teaching staff who supervises the work of the freshman and the sophomore years.

At the end of this period, each student chooses her major field. During the junior and senior years her major adviser guides advanced study in the area of concentration and other phases of the college work. Twenty-five departments offer major programs and seven interdepartmental majors are also available.

Classes vary in size. Those in which student participation is important are small. Introductory courses and classes taught primarily by the lecture method are often divided into small groups for conference and discussion. Laboratory work in the sciences is conducted with the most modern laboratory equipment. There are opportunities for independent work and students may also be invited to participate in research projects with members of the Faculty.

Special Concerns About the Education of Women

In keeping with its tradition, Barnard is concerned with the problems and potentialities of women today. The Barnard Women's Center, now in its third year, reaffirms the College's commitment to helping women realize their potential. It maintains a resource collection of books and articles on women, publishes an annual interdisciplinary bibliography of research on women and has initiated both academic and nonacademic meetings and conferences. Guided by a board of students, faculty, staff, and alumnae, the Center is working to make use of its varied resources to develop effective bonds between the College and women on and off the campus.

Curricular offerings focusing on women are available in the departments of Economics, English, French, History, Oriental

Studies, Sociology, and Spanish. An interdepartmental course is also being given by members of the departments of Anthropology, Biological Sciences, Psychology, and Sociology.

The Campus

The campus occupies four acres of urban property along Broadway between 116th and 120th Streets. At the southern end of the campus, three residence buildings, Brooks, Hewitt, and Helen Reid Halls, face Altschul Court, a landscaped quadrangle.

Barnard Hall is just north of the open courtyard and contains seminar rooms, classrooms, and faculty offices, as well as a gym, a swimming pool, and dance studios. The College Parlor on the third floor is used for meetings and small social events.

Adele Lehman Hall is a modern five-story building containing the Wollman Library, faculty offices and classrooms. The library has over 119,000 volumes in an open shelf arrangement on three floors. This collection of carefully selected books is designed to cover curriculum requirements as well as to provide opportunities for independent work in many fields. A collection of approximately 3,500 music and spoken records, a large selection of periodicals and journals, photographs and art reproductions housed in a separate room supplement and strengthen the book collection. There are ample listening facilities for records and an audio-visual studio and control room for the recording of tapes and the use of other equipment. The reading areas contain a number of individual study carrels, many of which overlook a lawn surrounded by small trees and shrubs. Barnard students also have access to the University's Butler Library of almost four million volumes, one million manuscripts and fifty thousand periodical listings. The other twenty-nine libraries of the University are also available for additional research.

Helen Goodhart Altschul Hall and the Millicent McIntosh Center, which were dedicated jointly in November 1969, face each other across an open plaza. The fourteen stories of Altschul Hall are devoted primarily to the sciences but also house the Herbert H. Lehman Auditorium on the first floor, and a language laboratory on the fourth. The laboratory, which contains 60 booths, is used by both Barnard and Columbia language students. Headquarters for student activities, a snack bar and a lounge are located in the McIntosh Center. Student mailboxes are there as well as music practice rooms, recreation and television rooms, bowling alleys, an art exhibit area, and the Jean T. Palmer Room, furnished with a conference table and chairs.

Milbank Hall occupies the northern extreme of the campus and houses administrative and faculty offices; classrooms; a greenhouse; and the Minor Latham Playhouse, a small well-equipped modern theatre. The French, German, and Spanish Departments maintain social and reading rooms in Milbank Hall.

Columbia University is directly across Broadway from the Barnard campus. Off campus, but in the immediate neighborhood, Barnard maintains other residence halls, including: 600, 616 and 620 West 116th Street, three apartment buildings owned by the College and containing suites accommodating five to six girls each; and Plimpton Hall, completed in 1968, which houses 280 students in apartment style units. Each Plimpton resident lives in a single room in a five-room suite with a central kitchen and bath.

Barnard Camp is a 20 acre tract in Westchester County about 35 miles from New York City. The Camp and its rustic lodge, Holly House, are used by the College for recreational and educational purposes.

Student Life

Barnard's student population is cosmopolitan in nature. While one third of the students have families within commuting distance, the others come from nearly every state and some twenty-five foreign countries.

The students represent diversity in background and training; and a mingling of economic, regional, and cultural strains finds expression in the life of the campus.

Every Barnard student is a member of the Undergraduate Association, which sponsors extracurricular activities reflecting current interests: the college newspaper, the literary magazine, dramatic groups, political and religious organizations, and pre-professional and departmental clubs. Cooperation between Barnard and Columbia groups is common. Many activities, such as the University's chorus and its orchestra, its radio station, and a community service program enlist members from both campuses.

During the past four years the structure of Barnard's student government has undergone fundamental revision, culminating in the development of twelve tripartite college committees. Students, faculty, and administrators serving on these committees share responsibility for policy decisions in the areas of curriculum, housing, financial aid, orientation, and the library.

The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life and is administered by the student Academic Council. A Judicial Council of undergraduates, faculty and staff, recommends disciplinary action for non-academic offenses.

Religious organizations and activities with headquarters on the Columbia campus at Earl Hall encompass nearly every faith and are open to all students. The Thursday Noon Meeting at Barnard provides a weekly forum for discussion of a wide range of contemporary issues. Student artists with a diversity of talents and interests collaborate to produce the free-wheeling Spring Festival.

The Recreation and Athletic Association sponsors many campus activities, including tennis, basketball, water ballet, fencing, and modern dance, as well as some athletic events with other colleges.

New York More than fifty years ago, Nicholas Murray Butler, one of Columbia's great presidents, observed, "New York is intensely cosmopolitan and contact with its life for a short time during the impressionableness of youth is in itself a liberal education." The city is an extension of the campus, utilized by every department to narrow the gap between learning and living. Barnard is a university college in an international city, and today the curriculum affirms and encourages precise and graphic use of its vast metropolitan resources.

Since entering classes are limited in size, admission to Barnard College is on a selective basis. The Committee on Admissions endeavors to choose candidates who seem most receptive to the discipline and challenge of a liberal arts education. Each applicant is considered in the light of her past performance, the qualities of mind and spirit which insure her growth as an individual, and her ability to contribute to the growth of those with whom she will associate in college and throughout her adult life.

The College believes it is also desirable for the student body to represent a stimulating variety of schools, both public and independent, from all parts of the United States and from abroad. Students who can visit the college for an interview should plan to do so in the fall of their senior year, or in the late spring of the junior year; others may arrange interviews with Barnard Area Representatives whose names are listed on pages 253-257.

**Admission
to the
Freshman
Class**

Application for admission to the freshman class should be made before January 1 of the year of entrance. It is advisable, however, to apply by the end of the junior year or the fall of the senior year. Application forms may be obtained by writing to the Director of Admissions.

A nonrefundable fee of \$15 must accompany each application. Checks or money orders must be in U.S. funds drawn on a U.S. bank, and made payable to Barnard College.

Students are admitted to the freshman class in September. They must be at least fifteen years of age, and should present the following credentials:

Evidence of good character, which is obtained from confidential reports from the applicant's secondary school principal and teachers and, if possible, through a personal interview at the College.

Evidence of sound health, to be submitted as soon as the applicant has been accepted, on forms provided by the Office of Admissions.

Evidence of intellectual ability and achievement, which is reported by the secondary school to the College, and is also demonstrated by the required College Entrance Examination Board tests.

Candidates for admission must offer a college preparatory program from an approved secondary school or should have equivalent education representing a four-year course of study. Academic preparation for admission should be based on the

requirements for the A.B., or liberal arts, degree. A recommended program would comprise four years of work in English; three years in mathematics; four years in a foreign language (ancient or modern); one year in a science with laboratory; and one year in history. An introduction to a second foreign language is generally useful. The remainder of the program would include additional work in the aforementioned subjects with the possible addition of music and art.

The Committee on Admissions is willing to consider the applications of students whose preparation may vary from the usual pattern but whose records give evidence of genuine intellectual ability and interest.

Every candidate for admission to the freshman class is required to take the College Entrance Examination Board Scholastic Aptitude Test and three Achievement Tests. The latter must be taken in (1) English composition, (2) a foreign language, and (3) history, science, or mathematics. The Scholastic Aptitude Test must be taken in November, December or January of the senior year in high school. Achievement Tests in continuing subjects (English, foreign languages, mathematics, etc.) must be taken in December or January of the senior year. Candidates must arrange to take the foreign language reading test in January of the senior year, or the listening-reading test in May. Achievement Tests in one-year subjects or those completed in the junior year may be taken in May of the junior year. It is the student's responsibility to direct the College Entrance Examination Board to send official test scores to the Office of Admissions.

Early Decision Plan

In order to alleviate some of the problems arising from multiple applications, Barnard, with the other members of the Seven College Conference, has agreed to take action in the fall of the senior year on applications of well-qualified students who have made their choice of a college by that time. Students wishing to apply under this plan should signify their intention when they request application papers. They must be certified by their school as having filed only one application.

Single-choice candidates for Barnard admission should send their application to the Office of Admissions, Barnard College, New York, N.Y. 10027, before November 1 of the senior year. Applications must be accompanied by the \$15 application fee. Late in November Barnard will send to single-choice applicants letters of admission or rejection, or, in doubtful cases, postpone-

ment of decision until the customary date in the spring. Each applicant will be considered on the basis of (1) the recommendation of her school principal or counselor, (2) her three-year record at school, and (3) the results of the required College Board Scholastic Aptitude Test and the three Achievement Tests taken in her junior year in English composition, a foreign language, and history, science, or mathematics.

The successful candidate will be expected to complete her senior year satisfactorily and to submit a record of that year's work. She will not be asked to repeat any College Board examinations. She must agree to pay to Barnard in January a deposit of \$100, if she is to be a commuting student, and \$200, if she is to be a resident student, to hold her place in the freshman class.

The candidate on whose application decision has been postponed will be given full and careful consideration in the spring. She will be asked to submit a record of her school work for the first half of her senior year and the results of senior College Board Scholastic Aptitude and Achievement Tests as additional evidence.

Candidates on whose credentials favorable action is not taken may file applications at other colleges after receiving their notification from Barnard.

**The College
Entrance
Examination
Board Tests**

The College Entrance Examination Board will administer the following series of tests in 1973-1974:

- Saturday, November 3, 1973 (Scholastic Aptitude Test only)
- Saturday, December 1, 1973 (Scholastic Aptitude and Achievement tests)
- Saturday, January 12, 1974 (Achievement Tests only)
- Saturday, February 2, 1974 (Scholastic Aptitude Test only)
- Saturday, April 6, 1974 (Scholastic Aptitude Test only)
- Saturday, May 4, 1974 (Achievement Tests only)
- Saturday, June 22, 1974 (Scholastic Aptitude Test only)

Candidates should write directly to the College Examination Board, Box 592, Princeton, New Jersey 08540, for the Bulletin of Information containing descriptions of the Scholastic Aptitude and Achievement Tests, directions for filing applications, and lists of examination centers. When requesting the application forms, candidates should state the month in which they wish to take the tests.

Residents of California, Oregon, Washington, Idaho, Montana, Wyoming, Utah, Colorado, Nevada, Arizona, New Mexico,

Alaska, Hawaii, Australia, Mexico, and the Pacific Islands should write to the Pacific Coast Office of the Board, Berkeley, California 94701.

To facilitate the arrangements for the conduct of the tests, all applications should be filed as early as possible. The normal closing date for the receipt of applications in Princeton, New Jersey, or Berkeley, California, for candidates outside the United States, the Canal Zone, Canada, Mexico, and the West Indies is two months before the date of the examination; for all other candidates the closing date is approximately five weeks before the date of the examination. A penalty fee will be charged for applications received later than the normal closing date.

No applications received in Princeton or Berkeley later than two weeks before the examination date will be considered. Candidates may not register for the tests at the examination centers. Each application should be accompanied by the appropriate examination fee. Please refer to the College Board Handbook for information about deadlines and fees.

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The colleges, in turn, will notify the candidates of the action taken on their applications for admission.

Admission with Advanced Placement

Students who have completed advanced work in secondary school and who present satisfactory scores on the Advanced Placement Tests of the College Entrance Examination Board may be placed in courses above the level of the freshmen year, at the discretion of the departments concerned.

Students with scores of 4 or better on the College Entrance Examination Board Advanced Placement Tests may be given credit toward the thirty-two course requirement for the degree, provided the Barnard departments concerned so recommend. Credit for advanced placement work will in no case be in excess of four semester courses. A petition for credit must be submitted to the Committee on Programs and Academic Standing.

Admission of Transfer Students

Barnard welcomes transfer students and each year accepts between one hundred and fifty and two hundred to the sophomore and junior classes. Application for acceptance with advanced standing should be submitted before May 15 for admission in September and before November 15 for admission in January.

Candidates should present a strong record of not less than one year's work at an accredited college, or foreign university, or

institution of equivalent grade. In general, credit is given for courses taken at another college which are similar in content to those offered at Barnard. (See also page 39.)

The student should submit her formal application and the following credentials: her secondary school record, a recommendation from her principal and her college dean or class adviser, a complete and official transcript of her college work and a copy of the college catalogue in which the courses she has taken are clearly marked, and the results of the College Entrance Examination Board tests. A candidate will be asked to take the College Entrance Examination Board Scholastic Aptitude Test if she has not already done so. No definite credit for junior college work can be assigned until the student has had an opportunity to establish a satisfactory record at Barnard.

Acceptance is subject to receipt of a statement of honorable dismissal, which is a certificate of good character from an authorized college representative, a satisfactory final transcript, and the required health reports. If these credentials are not received, the student must postpone registration until after classes begin. There is an additional \$15 fee for lateness.

Seniors who are degree candidates at other colleges may apply for permission to complete their requirements at Barnard. Each applicant must present satisfactory college records and letters of approval from her Dean and her major adviser, and agree to comply with all Barnard regulations concerning attendance and course examinations.

Admission of Foreign Students

The College is interested in the applications of qualified foreign students. Candidates are expected to take the Scholastic Aptitude Test given by the College Entrance Examination Board, if they can arrange to do so. (This test examines the student's ability to understand word relationships and to comprehend what is read, and the ability to understand and solve mathematical problems.) Freshmen candidates should also present the Achievement examination results. Requests for an examination center overseas should reach the Board, Box 592, Princeton, New Jersey 08540, two months prior to the dates listed on the previous pages.

Knowledge of the English language is essential for admission. It is recommended that applicants take the TOEFL, Test of English as a Foreign Language. Information about registration should be obtained by writing to the TOEFL Program, Educational Testing Service, Princeton, New Jersey 08540. If the

results of this examination cannot be presented, students whose native language is not English are required to take the American University Language Center Test. Arrangements for it should be made through the United States Consulate.

During the week of registration (September or January) all foreign students must take English placement tests in writing, aural comprehension, and speech. Failure to pass these tests will necessitate remedial courses in English at Columbia University, either without academic credit or with limited credit, depending on the level of the course and the grade obtained. No credit is assigned for other academic courses until the remedial work is successfully completed.

Limited financial aid is granted to qualified applicants. Admitted students should direct an inquiry to the nearest American Embassy concerning the possibility of securing a Fulbright travel grant. Employment during the first year here is not permitted. Official approval must be obtained from the Immigration and Naturalization Service for paid work after the first year.

Definite credit for study at foreign institutions is not assigned until a full year of satisfactory work has been completed at Barnard. It is hoped that the foreign student will return to her home country and utilize her education after completion of studies in the United States.

For information concerning the Medical Expense Policy which is obligatory for foreign students whose homes are outside the United States, please see page 228.

Candidates are urged to communicate with the Director of Admissions well in advance of the date they wish to enter, so that the College may assist them with their plans.

Readmission

Students who have been granted leaves of absence may be readmitted for either of the following two terms upon application to the Director of Admissions before the dates on which charges and fees are due (see Fees, p. 223). After these dates applications must be accompanied by a payment of \$15.

Students who have not been granted leaves of absence should make application for readmission to the Director of Admissions by November 15 for the Spring Term and by May 15 for the Autumn Term. Completed applications include all required credentials (e.g., medical reports, transcripts, recommendations) and a nonrefundable fee of \$15.

**Academic
Requirements
for the
A.B. Degree**

Requirements for the Bachelor of Arts degree are flexible and have been planned to serve as a framework for the study of various fields of human thought. They should provide a foundation in the liberal arts and sciences on which to base more intensive work in specific fields. All requirements must be completed within six years of the student's matriculation as a freshman. These requirements call for the completion of 32 semester courses and include the following:

I. Basic English A. (Foreign students please refer to page 34.)

One science (two semesters), with laboratory. See departmental statements for specific courses which fulfill the requirement.

Foreign language. Competence in an ancient or modern foreign language. This requirement may be fulfilled either by passing an examination with a sufficiently high score, or by satisfactory completion of a designated course. (See the statement under the appropriate language department for further details.) For languages not offered at Barnard, the student should consult the Chairman of the Language and Literature Committee.

II. General Completion of six semester courses outside the major department, selected from the categories listed below. Only those courses in this catalogue which are prefaced by the symbol § may satisfy the requirement, and no more than two in any single category may be counted.

1. Art history; music
2. Literature in the language in which it was originally written
3. Philosophy; religion; Oriental Humanities V3399x-V3400y
4. History; Oriental Civilizations V3355x-V3356y
5. Mathematics
6. Anthropology; economics; geography; political science; linguistics; sociology

III. Major A major field is to be selected before the end of the sophomore year, consisting of eight or more courses, as prescribed by the department. Each department requires, as specified, a senior essay or a major examination or some equivalent demonstration of proficiency in the discipline. A major may be chosen in any one field, or in such combinations as are approved by the Committee on Programs and Academic Standing.

*IV. Physical
Education* Four terms required. Two terms in the freshman year and two additional terms.

Satisfaction of Requirements by Examination

At the discretion of the department involved, a student may take special examinations which, if successfully passed, offer exemption, without credit, from basic, general, and major requirements. Special examinations may also be taken to demonstrate preparation for admission to advanced courses. Further details concerning such examinations are available in departmental offices. The purpose of these examinations is to allow the student a wider intellectual experience than would otherwise be possible during the four-year college course.

Senior Scholar Program

The Senior Scholar Program allows especially qualified students to undertake a single project, with exemptions from all course and major requirements, in the senior year, or in one semester of the senior year, normally the second. The program is intended to meet the needs of those few students who come to the senior year with a record of unusual accomplishment in a specific area of scholarship, or in the practicing arts. A student with such qualifications should prepare a detailed proposal in conference with a faculty adviser who has agreed to direct her work. Application must be made to the department concerned and then to the Committee on Instruction, by midsemester of the second term of the junior year. At the conclusion of the junior year, the student should have completed all basic and general requirements for the degree.

Experimental College

The Experimental College was begun in 1969 by students who believed that learning could best occur in a group, housed together and devoted to the study and practice of educational change. Students in the Experimental College have the opportunity to develop courses and projects that may be both an accompaniment of and a contrast to the existing college structure. A committee of faculty members and students assist the coordinator in screening proposals for group and individual projects, in helping to initiate projects, and in devising methods of assessing them. The number of students enrolled for credit in any term is limited to forty, of which approximately one-half will be resident members. See page 66 for further details about eligibility and credit.

Residence

Students are expected to be registered for full-time work for four years. Requests for acceleration will be granted sparingly and only for reasons of weight. Normally, only 8 courses per year will count for credit, but students may elect to take 5 courses in any term. All count equally in determining the academic average. Permission to complete the work for the degree while registered in *absentia* may be granted under certain

conditions on application to the Committee on Programs and Academic Standing.

**Grading
System**

Academic standing and eligibility for graduation are determined by the quantity and quality of the student's work. Quality of work is indicated by the following grades: A or A—, excellent; B+, B, B—, good; C+, C, C—, fair; D, poor; F, failure, and P, passed without a specific grade.

A course is marked Inc. (incomplete) to indicate postponement of required work and Abs. (absent) to indicate absence from the final examination. Failure to complete such work according to terms set by the Faculty will result in marks of NC (no credit) if the completed portion of the work is passing, or F if prior work is unsatisfactory.

The entry Y-C signifies that the grade on completion of the second term will apply to the first term as well.

WDF signifies withdrawal from a course without formal notification to the Registrar, and is considered equivalent to F.

Pass-fail grades are recorded for all students in some courses and at the individual request of the student in courses for which letter-grades are normally assigned. The following regulations apply to pass-fail credit:

At least twenty-four of the thirty-two courses required for the degree must be assigned letter-grades.

No more than four pass-fail grades may be requested by any student during her enrollment at Barnard.

All courses in the major must be assigned letter-grades.

Grades of P are not included in the grade point average.

No limitation is placed on the number of pass-fail grades which may be recorded in a single term, except those rules which apply to the Dean's List and to eligibility for financial aid.

In the computation of grade averages, marks for courses are awarded points on the following scale: A = 4, B = 3, C = 2, D = 1, F = 0. For every plus or minus unit an adjustment of +0.3 or -0.3 is made. In order to be recommended for the degree a student must maintain a cumulative average of 2.00 (C) for 32 or more courses completed with grades of D or above. At the end of each term all records are examined. Normally only those students with cumulative averages of 2.00 or above

are permitted to remain in college. Continuance in college of students whose work falls below this average depends upon promise of future achievement and is determined by the Committee on Programs and Academic Standing.

Courses which receive marks of D may not be counted toward the minimum number of courses required in the major field, although they are included in the average for the major.

Requirements for Transfer Students

Before registration the transfer student receives an estimate of the credit she may expect for work she has done at her previous college. She plans her program with her adviser using the estimate as a guide to the required work to be completed.

Transfer students may receive exemption from the Foreign Language Requirement on the basis of their College Entrance Examination scores alone, or on the basis of the combination of those scores and the number of semesters of the language studied at another college. Those who do not receive exemption will be placed in appropriate courses leading to fulfillment of the requirement.

A maximum of 8 courses toward the degree is allowed for each year's work elsewhere. Barnard registration for four or more semesters is required, and at least 16 courses must be completed, including a minimum of 6 courses in the major field.

Transfer students are subject to the regulations governing summer study as set forth on page 42.



Registration Class advisers are appointed from the teaching staff and may be consulted by students with individual questions or for information about the various services and activities of the college. Freshmen and sophomores plan their programs in conference with their class advisers and obtain their signatures on all official forms and documents. Major advisers are appointed in each department to aid juniors and seniors in planning their general programs and in completing the requirements of their particular fields.

Registration and program-filing take place each term according to a schedule mailed to all students before the beginning of the term. Classes cannot be attended until all fees are paid and registration is complete. Failure to register or to file a program at the assigned times will entail the payment of additional fees.

No student may be registered simultaneously in any other school or college without the consent of the Dean of Studies.

Language Placement Examinations Fulfillment of the foreign language requirement or placement in a language course may be achieved on the basis of College Entrance Examination Board scores or previous college courses or both. Examinations are given before registration for students who have studied foreign languages but who cannot be given placement in the above ways. Any student who wishes to take a placement examination may do so, and she must accept the placement she receives.

Academic Discipline Enrollment in the College, award of academic credit, and conferring of the degree are subject to the disciplinary powers of the College. Any registration may be cancelled at such time and upon such grounds as the College shall in its sole discretion determine.

Attendance Students are expected to attend classes regularly. Those who are absent from classes must expect the quality of their work to be affected. Frequent or prolonged absences from the College or from classes may cause a student to forfeit the right to complete course work or take final examinations.

All absences due to illness must be reported on forms available in the Office of Health Services. Illness is considered an excuse for absence only if the student's statement is filed immediately upon her return to college.

Barnard is a nondenominational college. Students who are prevented by conscientious scruples from complying with academic requirements on days set apart for religious observance should discuss this problem with their religious counselors.

Withdrawal within the Term

A student not subject to discipline for infraction of College rules may withdraw from the College during the term by giving notice of intention to withdraw in writing on forms obtained from the Office of the Dean of Studies. Signature by a parent or guardian is required. Failure to submit the proper notification on the part of a student who withdraws while College is in session may result in a report of WDF for the term's work.

Leaves of Absence

Requests for leaves of absence should be made on forms obtained from the Office of the Dean of Studies. A student who is eligible for readmission may request a leave of absence for one term or two consecutive terms only, for personal reasons, e.g., health, marriage, financial necessity, or for study elsewhere. Completed applications for leave of absence must be received prior to the first term to which it applies.

Classification of Students

Students are classified as follows:

Freshmen — those who have completed fewer than 6 courses

Sophomores — those who have completed 6 courses

Juniors — those who have completed 14 courses

Seniors — those who have completed 24 courses

Unclassified — those who have not yet been assigned definite credit on transfer

Nonmatriculated—those who are not candidates for the degree

No matriculated student may change her status to that of nonmatriculated student.

Program-filing

Programs are filed with the Registrar on designated dates in each term (see College Calendar, pages 7-8). After these dates, new courses may not be added, and other changes are subject to the following regulations:

Section Changes. Sections may not be changed except at the written request of the instructor.

Dropping Courses. A course may be dropped with the written approval of the class adviser (for freshmen and sophomores), the major adviser (for juniors and seniors), or the College

Physician. After a fixed date (see College Calendar, pages 7-8), no course may be dropped except with the approval of the Dean of Studies, and then only for reasons of serious personal emergency.

**Columbia
University
Courses**

Only courses which carry 3 or more points may be credited toward the requirements for the degree.

Courses in Columbia College not listed in this announcement are open to Barnard students as electives. Students should consult their advisers before including these courses in their programs.

Courses in other divisions of the University not listed in this announcement may be elected in accordance with regulations sent to each student with her registration materials.

Teachers College: Certain courses may be taken by qualified seniors with the consent of the Dean of Studies and the Registrar of Teachers College. Except for seniors in the Barnard education program, fees for these courses are not included in the regular tuition, but are added to the Barnard bill.¹

**Summer
Study**

Students are expected to complete the work for the degree in eight academic terms at Barnard. Summer courses may be credited by the approval of the Committee on Programs and Academic Standing when a student has received permission to accelerate or when she has incurred deficiencies in numbers of courses or in requirements. No more than four summer courses may be taken for credit toward the degree.

Requests for summer study credit must receive the written approval of the chairman of the appropriate department. This endorsement may be secured in advance and filed with the Registrar. Students are responsible for insuring that official reports of summer work grades are submitted to the Registrar as soon as possible in the ensuing fall term. The following regulations apply to all summer work:

Not more than two one-semester courses may be elected in any one summer session.

Courses of less than six weeks' duration are credited only in exceptional cases.

¹ Financial aid is not applicable to fees for such work.

No course with a grade lower than C will be credited toward the degree.

Grades will not be included in the Barnard average.

Final Examinations

Final examinations are scheduled at the end of each semester. (See College Calendar, pp. 7, 8.)

Deferred examinations, given in September and March, are open only to those students whose work is satisfactory and who were absent from the regular examinations for reasons of illness or emergency. Exceptions to these conditions can be made only by petition to the Committee on Programs and Academic Standing before the regular examination period begins.

Absence for reasons of health on the day of an examination should be reported to the Office of Health Services.

Examinations missed in December are to be taken the following March or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a valid excuse from a final or deferred examination, she will receive a grade of zero for that examination. A fee of \$10, payable in advance, is charged for each deferred examination. A senior who has missed an examination at the end of her last term may apply for a special examination for which the fee is \$10, payable in advance.

Examinations During the Term

Instructors are not required to give make-up examinations to those absent from previously announced tests. An instructor who is willing to give a make-up test is authorized to do so if the student has submitted a report of illness approved by the College Physician or acceptable evidence of other extenuating circumstances.

Reading Period

There are no class meetings on the last class day before the final examination period in each term. This interval may be extended for any class, at the option of the instructor, to the full week prior to the examination period.

Transcripts

Transcripts for the previous term are sent to all students in February and June without charge. Additional unofficial copies of transcripts may be obtained from the Registrar. Official copies of transcripts bearing the seal of the College and the signature of the Registrar of the College can be sent only to

academic institutions, business organizations, and government offices, at the request of the student. Fees are charged for all transcripts ordered.

Degrees Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts. Degrees are granted in May, October, and February. A statement of intention to complete the work for the degree on any one of these dates must be filed with the Registrar at the announced time. (See College Calendar pages 7, 8.) Graduation ceremonies are held in May.

Honors The Faculty awards honors to students who complete work for the degree with distinction (cum laude, 3.25), with high distinction (magna cum laude, 3.50), and with highest distinction (summa cum laude, 3.75). Students whose records include work done at another institution will be eligible for honors if both the over-all and the Barnard averages meet this requirement. Departmental honors are awarded to graduates who are recommended by their departments for distinguished work in their major fields.

Dean's List A Dean's List, which contains the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. Eligibility is based on at least three courses each term and at least six grades, other than P, for the year.

Phi Beta Kappa The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible. Questions concerning Phi Beta Kappa should be referred to the Office of the Dean of Studies.

The Honor System An integral and pervasive aspect of academic life at Barnard College is the school's Honor System, instituted in 1912. Under it, a student is expected to maintain responsibility for her own conduct and to show consideration for other members of the community in academic matters. This code of responsibility for oneself and to the community applies to such areas as signing of class attendance sheets, taking examinations, and preparation of assignments. Administration of the Honor Code and any infractions of it which may occur are dealt with by the Academic Council, but the success of the Honor System depends on the integrity of each individual Barnard student.

Health The Student Health Service provides diagnosis and treatment of most chronic and all acute medical conditions. The staff is composed of a Director (an internist), an Assistant Director, consultants in Adolescent Medicine, Gynecology, and Dermatology, two psychiatrists, two psychiatric counselors, three nurses, and a receptionist.

Complete examinations are performed on Seniors in the Fall semester and Sophomores in the Spring semester. They are not mandatory but are recommended and are necessary if health certificates are needed.

All students, residents, nonresidents, and commuters, must immediately report any illness, however minor, to the Office of Health Services. If resident students wish to have someone other than the Health Services physicians care for them, their parents must address a request to the Director and send her the name and address of the doctor before registration.

Housing Traditionally, Barnard has attracted students from all over the world as well as from its own community, New York City, and its suburbs. At present the College has academic facilities for 2000 students, of whom approximately 1150 can be housed in the campus residence halls and the Barnard cooperative apartment residences adjacent to the campus. Additional rooms may be assigned by the College in other residences near the campus.

The Director of Residence must know before academic registration each term where every student is living and must have any permission forms required of the student complete and on file. Any student who wishes to change her address at any time after her first registration for a given academic term (even when returning to her legal home) must file her new address with the Director of Residence.

To arrange for off-campus housing, the parent or legal guardian must sign an Off-Campus Housing Permission Card stating that he or she takes full responsibility for the student's health, safety and finances. Permission is official when the card is on file at the College. The College strongly recommends that two or more students live together. Should a student return to her legal home, she must notify the Director of Residence.

Housing Classifications Students are classified as residents, nonresidents, or commuters when they enter Barnard. This classification is based on the distance of a student's home from the College and may change:

1. if the legal residence changes (i.e., the residence of the parent or legal guardian); 2. in case of nonresidents, if they are assigned a room in one of the residences owned and operated by the College, resident status is assigned; 3. in case of residents, if they move off campus, they are reclassified non-resident.

Resident A resident is a student whose legal home is outside the commuting area and who is assigned a room by the Director of Residence in one of the residences owned and operated by the College, or in housing leased by the college.

Nonresident A nonresident is a student whose legal home is outside the commuting area who is not assigned space in one of the residences owned and operated or leased by the College. The parent or legal guardian must submit a written request for off-campus housing (any housing arrangements not within a Barnard owned and operated residence) to the Director of Residence by August 1 for the Fall Term and by December 1 for the Spring Term. When the student accepts a room in college housing, her housing classification changes to that of resident.

Commuter A commuter is a student whose legal home falls within the geographic area prescribed by the College as the commuting area. Commuters are eligible for College-assigned housing when space is available. Assignments are on a semester basis. Commuters are not reclassified as residents. Priority is based on academic class and distance. If a commuter is given permission for off-campus housing, her name will be removed from the waiting list for College-assigned rooms unless she specifically requests that it should remain.

Eligibility In order for a student to retain eligibility for housing she must be registered for a full academic program. Exceptions may be made for second semester seniors who need to take less than a full program to complete the degree requirements or for students who have permission from the Dean of Studies to take a reduced program.

Any other requests may be forwarded to the Director of Residence, for appropriate consideration.

A reduction of course load may affect financial assistance from the College. A student receiving aid and considering this alternative should consult the Director of Financial Aid.

**College-Owned
and Operated
Residences**

Assignments are made by the Director of Residence according to the following priority: resident upperclassmen; incoming resident freshmen; non-residents who wish to change their status to resident; re-admitted resident students; non-resident transfer students; commuters who wish resident accommodation on a temporary, semester basis without a change of housing status.

SUPERVISED DORMITORIES

1. **Brooks, Hewitt and Reid Halls**, supervised dormitories at 3001 Broadway, are operated as one complex with space for approximately 515 students. Rooms are primarily singles and doubles. Freshmen are usually assigned to double rooms. All students living in these halls are required to subscribe to the College meal plan. Rooms are \$735 singles; \$685 doubles or other multiple occupancy per academic year. Board \$550 per academic year; fifteen meals per week (Monday through Friday).
2. **616 West 116 Street**, an apartment-style supervised residence directly across the street from the other halls, provides housing for 212 residents in suites of single and double rooms accommodating five or six girls. Each suite has a kitchen and bath. Rooms are \$800 singles; \$750 doubles per academic year. Subscription to the food plan is optional.
3. **Plimpton Hall**, an apartment-style supervised dormitory on Amsterdam Avenue and West 121 Street, a short walk from the main campus, provides housing for 280 residents in suites of five single rooms. Each suite has a kitchen and bath. Rooms are \$800 per academic year. Subscription to the food plan is optional.

OFF-CAMPUS RESIDENCES (Parental permission is required in order to reside in these buildings.)

1. **620 West 116 Street**. Barnard College has limited space available in this apartment building. There is no resident supervision. Seniors have first priority for this space. Rooms are \$800 singles per academic year. Subscription to the food plan is optional.
2. **600 West 116 Street**. Barnard has recently purchased this apartment building. There are limited spaces available to Barnard students. There is no resident supervision. The rooms are \$800 for singles and \$750 for doubles, per academic year. Subscription to the food plan is optional.

The College has instituted co-educational housing with Columbia College. This program involves several College dormitories at Barnard and Columbia. Parental permission is required in order to reside in Columbia College housing.

**Married
Students**

Students who plan to marry during the academic year and continue in college are asked to notify the Dean of Studies. Married students, as a rule, will not be allowed to remain in the college residences. They will be subject to the financial obligations which pertain to any student who withdraws from the residence halls or from the College during the term.

**Financial Aid
for Room
and Board**

A Barnard student whose academic record and financial situation make her eligible for financial aid from the College will have the cost of room and board considered in her award if she is classified as a resident student and resides in College housing.

**Office of
Placement
and Career
Planning**

The Office of Placement and Career Planning assists students and alumnae in planning for and finding full-time, part-time and summer positions. Through personal interviews and the use of career information and resources, the staff helps students and alumnae to make vocational choices appropriate to both immediate needs and long range goals.

The Office, which is open throughout the year, contacts hundreds of potential employers for jobs in many different fields. In addition the staff does research on those fields of special interest to Barnard students and alumnae. The Office arranges meetings with professionals to discuss specific career opportunities and conferences on general vocational concerns. It also maintains a library of vocational material and a collection of catalogues from graduate and professional schools. Each year several thousand requests for credentials for graduate school are sent out for seniors and alumnae.

About 50% of Barnard students do some paid work during the school year. The Office of Placement and Career Planning lists part-time jobs, for on and off-campus, ranging from manuscript typing to dog walking, from ushering to tutoring. The Office supervises the Barnard Babysitting Service, which receives over five thousand calls for babysitters each year. Students' average term-time earnings range from about \$250 to \$550. Freshmen are referred to part-time jobs for no more than 10 hours per week their first semester.

Approximately 75% of Barnard students work during the summer. Average earnings for full-time summer jobs range

from \$600 to \$900. The staff helps students find summer jobs, provides information on special programs and internships and contacts many other potential summer employers throughout the country. In addition the Office places students on the Federal Work-Study Program in jobs during the school year and the summer. During the summer Work-Study students have had jobs in as many as 42 organizations in 14 different states, ranging from California to New York, from Minnesota to Louisiana.



The College reserves the right to withdraw or modify any course or to change the instructors as may be necessary.

Course descriptions will be found in the following pages. More information may be obtained from the chairmen of the departments at registration periods and during the academic year.

Room assignments are printed on separate sheets and distributed during registration.

Autumn Term courses are marked by odd numbers, Spring Term courses by even numbers, year courses by consecutive odd and even numbers. An even number followed by x indicates a course given in the Autumn Term. An odd number followed by y indicates a course given in the Spring Term.

Indivisible courses which run throughout the year are marked with a hyphen between the numerals (Music 1-2). No credit is given for work in an indivisible course dropped at midyear without the written consent of the instructor and the departmental chairman and the approval of the Committee on Programs and Academic Standing.

Divisible courses which run throughout the year are marked with a comma between the numerals (Geography 1, 2). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only if written permission of the instructor is obtained.

Courses are arranged in examination groups to avoid conflicts on the examination schedule. The groups are indicated by boldface numerals following the course title (English Composition [0]). Group 0 includes courses which ordinarily do not have set examinations. No student may elect two courses in the same examination group, other than Group 0, without a written statement from one or the other instructor that a conflict examination will be given. This statement must be filed by the student in the Registrar's Office. A complete list of courses by examination groups is given on pages 259-261.

The following alphabetical prefixes designate the division of the University for whose students the course is primarily offered or indicate joint courses.

C — Columbia College

F — School of General Studies

G — Graduate School of Arts and Sciences

R — Program in the Arts

V — Joint undergraduate course with Columbia College
and/or the School of General Studies

W — Other inter-faculty course

The level of the course in general is as follows:

1000-3999 Undergraduate

4000-5999 Graduate, open to qualified undergraduates

6000-8999 Graduate, normally not open to undergraduates

The symbol x follows the number of a course given in the
Autumn Term; the symbol y follows the number of a Spring
Term course.



I. American Studies

This program is supervised by the Committee on American Studies:

Professor of History Annette K. Baxter, Chairman

Professor of Art History Barbara Novak

Professor of History Basil Rauch

Associate in English R. Christine Royer

The purpose of the program is to develop understanding of American civilization considered as a whole. The results of specialized study in all fields of learning dealing with American subject matter are assembled for the work of the senior seminar.

A major in American Studies: In order to acquire a broad understanding of American civilization and acquaintance with various methods of studying it, a student who majors in American Studies must take a program, planned in consultation with her major adviser, which includes the following: (a) Two courses selected from among ancient, medieval, or European history in any combination. (b) Two courses in American history. (c) Two courses in social science dealing primarily or partly with American subject matter. (d) Two courses in humanities dealing primarily or partly with American subject matter. (e) In the junior year American Studies 1-2, and in the senior year American Studies 3-4.

A research essay to be prepared in the senior seminar is required in lieu of the major examination.

1-2. Junior Readings. [0]

Students will read selected classics and examples of contemporary scholarship in American Studies. The aim of the course is to prepare the student to discuss and write critically on interdisciplinary works. May be entered either semester. Open to non-majors with permission of the instructor. Professor Baxter. Biweekly meetings. Th 3:35-5:15.

3-4. Senior Seminar. [0]

Individual research on diverse aspects of American civilization, in consultation with the instructor, and presentation of results in the form of the senior essay. Professor Baxter. W 2:10-4 and frequent conferences.

II. Ancient Studies

This program is supervised by the Committee on Ancient Studies:

Professor of Art History and Archaeology Edith Porada (Columbia)

<i>Professor of Greek and Latin</i>	William M. Calder III (Columbia)
<i>Associate Professors of Greek and Latin</i>	James A. Coulter (Representative for Columbia College) Lydia Lenaghan ¹ (Representative for Barnard College)
<i>Associate Professor of History</i>	William V. Harris (Columbia)
<i>Assistant Professors of Art History</i>	William Childs (Columbia) Ann Farkas (Representative for General Studies)
<i>Assistant Professor of Middle East Languages and Cultures</i>	Irvine D. Marcus (Columbia)
<i>Assistant Professor of Philosophy</i>	James W. Forrester (Columbia)
<i>Assistant Professor of Religion</i>	Elaine Pagels

¹ Absent on leave, Autumn Term.

The major in Ancient Studies is designed to allow the student to explore various aspects of antiquity while concentrating on one. By studying the ancient world in several academic disciplines she will acquire a general knowledge and a context for her own area of specialization.

Each student chooses an adviser whose field is closely related to her own and with whom she will do her senior reading, but the programs of all the students are reviewed in common by the Committee, in order to maintain control and a sense of collective enterprise.

Major requirements: nine courses, including at least four courses in one geographical area or period and at least the first semester of Ancient Studies V3998x, V3999y, *Directed Research in Ancient Studies*, with presentation of written results. In some cases, a senior seminar in one of the departments may be substituted for this course.

Ancient language courses may be used toward the major requirement; however, where a second ancient language is offered, in one of the two a second year sequence must be offered to gain credit for the first year.

III. Program in the Arts

This program is supervised by the Committee on a Program in the Arts:

<i>Professor of English</i>	Barry Ulanov, Chairman
<i>Professor of Music</i>	Hubert Doris
<i>Professor of Art History</i>	Barbara Novak
<i>Associate Professor of English (Theater)</i>	Kenneth Janes
<i>Associate Professor of Physical Education (Dance)</i>	Jeanette Roosevelt, Coordinator

The Program in the Arts is offered for a limited number of students who are gifted in one of the arts and who wish both to continue the development of their skills and to obtain a liberal arts education. It is designed as an interdisciplinary major in the arts with concentration in one particular art. The program offers a general introductory course, a junior colloquium, and a senior seminar, as well as directed work in a field of concentration such as studio work in the visual arts, music as a performing art, the dance in all its aspects, theater as a performing art or as a discipline of literary scholarship, and writing in all its branches.

Students are normally admitted to the Program in the Arts in their sophomore year, but freshmen who look forward to entering this major are strongly advised to take the introductory course in their freshman year and to seek the counsel of members of the Committee in shaping their program as early as possible. Admission is based upon application to be made before March 1 of the sophomore year. Each applicant will be asked to provide supporting evidence of her individual skill. There are broad general requirements and special ones in each of the disciplines, but each student's program will be given shape with the utmost flexibility possible.

Courses offered under the sponsorship of the Committee, required of all students majoring in the Program in the Arts, are described in the section below. Requirements for the various concentrations within the Program are outlined following. A student should consult with the faculty member on the Committee who is responsible for the area in which her interest lies.

1-2. Introduction to the Arts. [7]

An interdisciplinary presentation, with special emphasis upon theories of style and performance. The interrelationship of the arts, their separate and common critical vocabularies, their borrowings from each other, their defining differences. The course stresses the phenomenon of process in the arts, observed through (1) the consideration of style in the various arts, (2) the study of a crucial period in the history of the arts, and (3) the consideration of major figures in the period, whose innovations in style or inventions in technique led to new forms of expression. Subject for 1973-74: The relation of of the arts in the Baroque period. Autumn Term: Professors Ulanov, Doris, Nyberg, and Roosevelt. Spring Term: Professors Ulanov, Janes, Roosevelt, and Miss Hilton. Tu Th 10:35-11:50.

52. Junior Colloquium. [0]

A close study of critical and scholarly works in the history and traditions of the arts, selected to illuminate a particular theme each year. The aim of the colloquium is to develop skills in writing and discussion, and to equip students to deal with the special problems that accompany any examination of the arts on an interdisciplinary basis. Theme for 1973-74: The multiple meanings of "image" in the arts. Professor Carpenter and staff. Hours to be arranged.

91. Senior Seminar. [0]

Contemporary issues in the arts, with special reports and projects leading to a thesis or a performance. Participating students are encouraged to work in groups, whenever their interests coincide or the logic of performance suggests such collaboration. Theme for 1973-74: The influence of Cubism on arts other than painting. Professors Breunig, Doris, and Ulanov. Hours to be arranged.

Courses required for the Dance concentration:

Dance 61-62. Dance Workshop
Dance 63. Form in Dance Composition
Dance 64. Content in Dance Composition
Dance 65,66. History of Dance
Dance 74. Seminar on Contemporary Dance Forms

Courses required for the Music concentration:

Any two of the following:
Music V3124y. History II.
Music V3125x. History III.
Music V3126y. History IV.

Plus the following courses if the student is not exempted from them upon entrance into the Program:

Music V2100x. Theory I.
Music V2101y. Theory II.
Music V2300x-V2301y. Theory III and IV.

Courses required for the Theater concentration:

English 30x. Introduction to the Theater (may be waived upon evidence of sufficient theater background).
English 33, 34. Play Production.
English 31 or 32. The Contemporary Theater.
English 35 or 36. Actor's and Director's Interpretation of Dramatic Literature.

Dance Technique. One semester. (Dance composition may be substituted upon evidence of adequate prior training.)

Three courses in dramatic literature drawn from the following:

English 63 or 64. Shakespeare.

English 86. Drama from Ibsen to the Present.

French 34. The French Theater of the Seventeenth Century.

Class. Lit. V3123y. Greek Drama and its Influences.

Greek V3305x. Tragedy.

German 25y. Great German Dramatists and Theaters of the 19th Century.

German 26. The Modern German Theater.

Russian V1229x. Russian Drama and Theater.

Spanish 22. The Spanish Drama.

Courses required for the Visual Arts concentration:

Art History 1,2. Introduction to the History of Art.

Art History 78. Introduction to Painting and Sculpture of the Twentieth Century.

Art History 86. Seminar on Criticism in the Arts.

A minimum of four studio courses, to be selected from offerings listed in the Barnard catalogue.

Courses required for the Writing concentration:

Four courses selected from the following:

English 3, 4. Structure and Style.

English 6. Advanced Composition.

English 7, 8. Experiments in Writing.

English 11, 12. Story Writing.

English 13, 14. Dramatic Writing.

English 93. Literary Criticism: Analysis and Evaluation.

Plus two advanced courses from any of the college departments of language and literature.

IV. Environmental Conservation and Management

This program is organized and administered by a committee of members of the Departments of Biology, Geography and Geology:

*Professor of
Geography*

Leonard Zobler, Chairman

Professor of Biology

Donald D. Ritchie

Professor of Geology

John E. Sanders

*Associate Professor
of Biology*

Patricia L. Dudley

*Associate Professor
of Biology*

David W. Ehrenfeld

The program acquaints the student with a set of issues that are crucial to the survival of mankind and begins the development of the means to cope with them. These issues concern the adequacy of the earth's natural resources to sustain an environment of quality when confronted by the pressures of the current urban-technologic-population explosion. Their combined effects

threaten the natural environment with profound and possible irreversible disturbances and question western man's land ethics.

The goals of the program are: (1) to train and equip students with the requisite skills, values, and attitudes to enable them to participate in the work of designing, establishing, and maintaining a viable ecologic habitat for man, and (2) to promote the development of research skills in environmental science. The concept of the ecosystem lends unity to the multi-disciplinary character of environmental studies.

The academic program is designed around the idea that man's ecosystem is the set of interacting relationships among the physical, biological, and cultural forces that govern the human realm. Coherence is provided by core courses followed by in-depth studies along one of several subject matter or managerial tracks. The core courses are: General Biology (Biological Sciences 1-2), Ecology (Biological Sciences 8), Environmental Science (Geography 1, 2), and Conservation Theory (Geography W4014y). In addition, a cluster of conservation courses on field work, readings, lab projects, and internships has been developed. Students may opt to follow a managerial or a scientific program. Model programs are available from the committee. The core plus five advanced electives, one of which shall be a year seminar, satisfy the major requirements. Examples of specialized paths are: urban ecology, biological conservation, environmental and physical resources, coastal zones, urban and suburban land planning, environmental center operation. Details are available from committee members.

- 41y. **Colloquium.** [0]
Readings, discussions, reports, and lab or field study of selected aspects of man's relation to the environment. Occasional invited guests. Topics and sections will be announced at the beginning of the semester. Permission to register is required. Committee Members. Hours to be arranged.
46. **Environmental Monitoring.** [0]
Introduction to environmental quality monitoring principles and instrumentation. Design of biologic, aquatic, atmospheric, terrestrial, industrial, and consumer product surveillance networks. Lectures, readings, laboratory and field experiences. Permission to register is required. Dr. Berger. M 2:10-4 plus project hours to be arranged.
48. **Coastal Zone Management.** [0]
Geologic, physical, biologic, and climatic factors in origin and present dynamics of various kinds of coast, with emphasis on the coasts in the New York area; mankind's use of coastal zones; problems in management; and governmental and private programs.

Lectures, readings, discussions, outside speakers, individual research projects leading to a term paper, and at least four field trips.
Prerequisite: Geography 1, 2; or Geology V1021x, V1022y; or the equivalent. Professor Sanders. Hours to be arranged.

51, 52. Environmental Projects. [0]

Special study projects in environmental science, field research, internships, and environmental issues of interest to the student. Individual arrangements with a member of the faculty.

[61. Urban Parks and Environmental Centers.

Not given in 1973-74.]

69, 70. Seminar. [0]

Reports and discussions of current individual or joint field research culminating in the senior essay. Committee Members. Hours to be arranged.

Additional courses in the program are offered by Biological Sciences, Geography, and Geology. For complete descriptions consult department course listings.

- Biological Sciences 4. Natural History of the New York Area.
- Biological Sciences 13. Biological Conservation.
- Geography 3. Agricultural Development and Agrarian Societies.
- Geography 4. Ecology of Urban Industrial Society.
- [Geography 31. Environmental Policy. Not given in 1973-74.]
- Geography 32. Land Use and Transportation.
- Geography 33. Environmental Planning and Perception.
- Geography 35. The New York Metropolitan Region.
- [Geography W4011x. Pedology and Soil Resources. Not given in 1973-74.]
- Geography W4012x. Hydrology and Water Resources.
- Geology W4226y. Marine Sedimentology.
- Geology W4927x. Introduction to Oceanography.

V. Foreign Area Studies This program is supervised by the Committee on Foreign Area Studies:

- | | |
|--|-------------------------|
| <i>Professor of Chinese and Japanese</i> | John Meskill, Chairman |
| <i>Professor of Anthropology</i> | Abraham Rosman |
| <i>Professor of English</i> | David A. Robertson, Jr. |
| <i>Professor of English</i> | Barry Ulanov |
| <i>Professor of History</i> | Chilton Williamson |
| <i>Associate Professor of French</i> | Serge Gavronsky |

*Associate Professor
of Oriental Studies* Barbara Stoler Miller

*Assistant Professor
of History* Daniel Field

*Assistant Professor
of Spanish* Marcia L. Welles

The purpose of Foreign Area Studies is to provide an introduction to the study of some one foreign region or country of the world. The work is divided into three elements: language, a scholarly discipline, and a diversified approach to a region. The student who wishes to major may choose one of the regions listed below. The courses named under each region include only those most commonly elected. Other courses, or other regions of concentration, may be chosen upon approval of the project by an adviser. Concentrations in African Studies can be arranged in certain departments; for information see advisers in Anthropology, Geography, History, and Political Science. For fuller descriptions of the courses listed, see under the appropriate department.

The senior requirement varies according to the region studied. Majors should consult their advisers for details.

A major in Foreign Area Studies is open to a limited number of qualified students whose applications are approved by the committee in charge. Freshmen and sophomores anticipating such a major should consult their class advisers and the officer in charge by March 1 of the sophomore year.

Asia (Adviser: Mrs. Miller) See Oriental Studies, page 167.

British Civilization (Adviser: Mr. Robertson)

This program emphasizes historical and literary traditions of British Civilization and is comprehensive enough to include specialized interests in the fields of imperial and commonwealth studies. A student who wishes to major should plan, in consultation with her adviser, a program to include (a) four courses in history; (b) four additional courses, of which two must be in English literature; (c) two courses in senior seminar in History or English.

Latin America (Adviser: Mrs. Welles)

A major consists of the starred courses and additional courses, the latter chosen to meet the following requirements: (a) one course in Latin American history; and (b) five more courses, of which two should be in one department and above the introductory level, chosen with the help of the adviser.

Anthropology V3010y. Native South America.

Anthropology V3029y. The Archaeology of the New World.

Anthropology G4111x. Latin American Communities.
 Economics W4321y. The Latin American Economy.
 Geography W4201x-W4202y. Latin America.
 History W4779x-W4780y. History of Latin American Civilization.
 Political Science G4461x. Latin American Political Behavior.
 Spanish 11. Significant Themes of Contemporary Latin-American and Spanish Literature.
 *Spanish 14. Spanish-American Culture.
 *Spanish 31-32. Spanish-American Literature.
 *Spanish V3811x or V3812y. Latin-American Seminar.

Russia (Adviser: Mr. Field)

A major consists of the starred courses and additional courses, the latter chosen to meet the following requirements: (a) at least two courses in Russian literature above the language requirement level; (b) four more courses on Russia, chosen with the help of the adviser; (c) three courses chosen from appropriate colloquia and senior seminars in consultation with the adviser; and (d) a reading knowledge of Russian adequate for research in the senior seminar.

Art History G4331y. Russian Art.
 Geography W4401x. Economic and Population Geography of the U.S.S.R.
 *History 27. Russia from the Time of Troubles to the Era of Reforms.
 *History 28. Russia from the Era of Reforms to the Death of Stalin.
 History 29. Pre-Petrine Russian Culture.
 History 30. Russian Radicalism and Its Antagonists.
 History 31. Serfdom in Russia and Slavery in the United States.
 Political Science 20. Colloquium on Communism and Revolutionary Change.
 Political Science 21. Colloquium on Politics and Social Change in the U.S.S.R.
 Political Science G4487y. The Dynamics of Soviet Politics.
 Russian V3333x, V3334y. Introduction to Russian Literature.
 Russian V3462x. Gogol.
 Russian V3464y. Dostoevsky.
 Russian V3465x. Russian Poetry in the Nineteenth and Twentieth Centuries.
 Russian V3467y. Twentieth-Century Prose Writers.
 Sociology G4010y. The Structure of Soviet Society.

Western Europe (Adviser: Miss Fagan)

For the program on England, see British Civilization above. For other Western European countries, such as the French, German, Italian, and Spanish speaking countries, a major consists of the starred courses and additional courses, the latter chosen to meet the following requirements: (a) two courses in the literature of one country, in the original language; (b) four more courses on the same country, chosen with the help of the adviser; and (c) two courses of senior seminar, usually in History.

The courses listed below are meant to indicate only the foundations on which a full program may be based. For more information, consult the adviser.

*History 11. Main Currents of the Modern European World: Renaissance to the French Revolution.
 *History 12. Main Currents of the Modern European World: Waterloo to Today.

[Two other history courses may be substituted for 11 and 12 with the approval of the adviser.]

History 25. The Establishment and Downfall of the French Monarchy: 1515 to 1789.

History 26. France in Turmoil: 1789 to Today.

French 21, 22. Masterpieces of Literature from the Middle Ages to the Twentieth Century.

German 11. Studies in German Literature (in German).

German 14. German Literature at the Turn of the 20th Century.

German 55y. Masterpieces of German Literature in Translation.

History 13. The Italian Renaissance.

History-Italian W3197x. Dante's World.

Italian V3114y. Introduction to the Reading and Analysis of Italian Literature.

Italian V3221x-V3222y. Machiavelli, Castiglione, Ariosto, and Tasso.

English-Italian C3358y. Artistic Theory in the Renaissance.

Italian V3449x-V3450y. Modern Italian Literature.

Spanish 13. The Culture of Spain.

Spanish 18. Literature of the Golden Age.

Spanish 23y. Nineteenth Century Literature in Spain.

Spanish 25. Contemporary Spanish Literature, Part I.

Spanish 26. Contemporary Spanish Literature, Part II.

Art History 69. French Architecture 1500-1800.

Art History 75, 76. European Painting Since the Renaissance.

*History 91-92. Senior Seminars in European Civilization.

VI. Medieval and Renaissance Studies

This program is supervised by the Committee on Medieval and Renaissance Studies:

Professor of Italian Maristella Lorch, Chairman

Professor of Art History James Beck

Professor of English Barry Ulanov

Professors of History Malcolm Bean
John Mundy

Professor of Philosophy Paul O. Kristeller

Associate Professor of English Joan Ferrante

Associate Professor of French Tatiana Greene

Associate Professor of Greek and Latin Lydia Lenaghan

<i>Associate Professor of History</i>	Suzanne Wemple (Adviser)
<i>Assistant Professors of English</i>	Lois A. Ebin Anne Prescott
<i>Assistant Professor of Religion</i>	Elaine Pagels

It will be supported by a University-wide group of consultants.

The purpose of this program is to provide an understanding of Medieval and Renaissance civilizations on the basis of interdisciplinary studies. Students will take related courses in various departments. The programs will be set up *individually* with particular emphasis on one of the disciplines: art history, history (which will combine Medieval and Renaissance Studies), one or more of the literatures, philosophy, romance philology, music, or religion.

Prerequisite for Medieval Studies: History 3. The Early Middle Ages, and History 4. The High Middle Ages.

Prerequisite for Renaissance Studies: History 4. The High Middle Ages, and History 13. The Italian Renaissance in the Fifteenth and Sixteenth Centuries, or depending on the field of concentration, History 13. The Renaissance, and History 14. The Reformation in Europe in the 16th Century.

Language requirement for Medieval Studies: A reading knowledge of one Romance or Germanic language. In special cases students may petition for another language. Students are expected to acquire a reading knowledge of Medieval Latin before graduation. (See Course 13-14 and Latin 33y.)

Language requirement for Renaissance Studies: A reading knowledge of two languages, preferably Latin and Italian, must be acquired before graduation.

Required courses: A minimum of eight one-semester courses within the general area of Medieval or Renaissance civilization, including courses listed below. Of these, at least three or four must be advanced courses in the field of concentration.

Students should consult mimeograph list of relevant courses.

The following courses are given primarily for students in the program but should places remain open students with the interest and necessary preparation will be admitted upon interview with a member of the Committee.

1-2. Introductory Seminar: The Restoration of Antiquity and the Revival of Letters.

[0]

An examination of the humanists' effort to revive the classical authors of Greece and Rome through philology. Selected readings of major classical authors and major Italian and French humanists. Autumn Term: Mr. White. Spring Term: Mr. Bertolini. M 2:10-4.

13-14. Junior Readings.

Readings in the original material from various disciplines, focusing both on language skill and analysis of content. Majors must achieve an average of B over two semesters. If not, one or two additional semesters are required. Qualified students may take Latin 33y after Medieval and Renaissance Studies 13. Dr. Kostka. M 5-6:30, Th 3:30-5.

Latin §33y. Medieval Literature.

[5]

A survey of representative late Latin and Medieval texts; readings from the Church Fathers, sacred and secular lyric, history, romance, satire, and biography. Practice in paleography. Prerequisite: Permission of the instructor. Professor Lenaghan. M W 2:10-3:25.

90. Senior Seminar.

[0]

The purpose of the seminar is to help the student complete a senior thesis that will reflect the interdisciplinary aims of the program. Preliminary work on the thesis is to be done in the preceding semester in a colloquium or senior-level seminar in the student's special discipline (e.g., English 97, I or II), selected during the spring term of the junior year in consultation with the instructor of Course 90. Miss Gottlieb. Tu 4:10-6.

VII. Urban Studies

This program is supervised by the Committee on Urban Studies:

<i>Professor of Political Science</i>	Demetrios Caraley, Chairman and Director
<i>Professor of Education</i>	Patricia A. Graham
<i>Professor of English</i>	Barry Ulanov
<i>Professor of Geography</i>	Leonard Zabler
<i>Professor of History</i>	Basil Rauch
<i>Professor of Sociology</i>	Bernard Barber
<i>Associate Professor of Anthropology</i>	Paula G. Rubel, Secretary
<i>Associate Professor of Economics</i>	Jean Gooch
<i>Assistant Professor of Urban Studies and Political Science</i>	Astrid E. Merget, Assistant Director

The purpose of urban studies is to develop understanding of the basic institutions, problems, and achievements of city life. A major in urban studies can be taken only in conjunction with a concentration in one of the regular departments. Normally the student should choose as major adviser the member of the committee from the department in which she intends to concentrate.

The major seeks, first, through departmental and inter-departmental courses to expose the student to the concepts and findings of a broad variety of disciplines as they bear on urban subject-matter; and second, to encourage the student to acquire the techniques and habits of scholarly investigation through pursuit of more advanced and concentrated work in some particular urban-related discipline including the writing of a senior thesis.

The requirements for a major in Urban Studies are: (a) one course dealing primarily with urban subject-matter in each of three of the following departments from among those courses indicated: anthropology (V3100y, Urban Societies), economics (W3228x, The Urban Economy), history (72, W4674y, American Urban History), political science (V3313y, American Urban Politics), sociology (33, The Community; 34x, American Minorities; or 48, Black Americans in the Twentieth Century); (b) one course dealing primarily with urban subject-matter from a list approved by the committee in each of two other departments, such as art history, English, geography, psychology, biology, architecture, urban planning; (c) in the junior year Urban Studies 45-46, and in the senior year Urban Studies 64; (d) satisfactory completion of a concentration in one of the participating departments consisting of not fewer than five courses and the writing in that department of a senior thesis on an urban topic to be approved by the committee.

Note: A list of the specific courses that are approved for fulfilling requirement (b) and of the departments that offer concentrations for urban studies majors is issued periodically by the chairman.

45-46. Junior Colloquium in Urban Studies.

[0]

Autumn: An historical examination of several approaches to the study and understanding of urban life. Literary, sociological, and religious sources will be assayed as well as those traditionally utilized by the urban historian. Spring: An examination of selected problems that currently afflict urban areas with particular attention to housing, education, crime, and poverty. Assessment of attempted

solutions including analysis of the theoretical assumption implicit in such remedial efforts. Autumn Term: Professor McCaughey. W 2:10-4. Spring Term: Professors Makarushka and Merget. M 3:10-5.

35. Colloquium-Workshop in Urban Administration and Management.

[0]

Readings, discussions, and reports on the processes of administration and management in urban organizations. Particular attention is given to such topics as executive leadership and control, decision-making, organizational theory, budgeting, and planning. Pre-requisite: Political Science V3313 or Urban Studies 46 or equivalent and permission of the instructor. Professor Merget. Th 2:10-4.

64. Senior Colloquium in Urban Studies.

[0]

Readings and discussions on the state of the knowledge concerning "urbanism" with particular attention to emerging trends in and prospects of cities. Reports on research being conducted for the senior thesis in the department of concentration. Professor Merget. Th 4:10-6.



I. Inter-departmental Course 1y.	Female and Male: An Interdisciplinary Approach. [7] Evolutionary, genetic, and physiological bases of sex: factors determining sex differences, hormones and behavior, pregnancy and motherhood, sex role strategies in the animal kingdom. Cultural definitions of sex roles in comparative perspective: ranges of variability and the significance of the constants. Psychological development of feminine and masculine behavior and behavioral sex differences in contemporary society. Personality theory and sex roles: Freud and Erikson. Current problems in sexual, familial and economic aspects of female-male relationships and in the status of women. Projections for the future and direction of social policy. Professor Komarovsky (Chairman), Professor Ehrenfeld, and representatives of the Departments of Anthropology and Psychology. Tu Th 10:35-11:50.
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[Inter-departmental Course 4.	Determinants of Sexuality. Dr. Mogul and Dr. DeFries. Not given in 1973-74.]
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II. Experimental College 1, 2.	An experiment in self-structured learning. Evaluation of the learning process, through the creation and execution of a program of independent study. Students may work in cooperation with faculty sponsors either individually or in a group or groups. Proposals for projects must be approved before September 19 for the Autumn Term and February 4 for the Spring Term. Enrollment is limited to forty students, and no more than three terms in Experimental College may be credited toward the degree. Professor Eisenstein.
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Experimental College 4.	A theoretical approach to some of the issues raised by the experimental education movement, with emphasis on the "culture" of the traditional classroom—competition, roleplaying, authority, tracking, and other elements, and the implications of some alternative educational modes. Professor Eisenstein. M 2:10-4.
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III. Studies in the Humanities	This program, not to constitute a major, is supervised by the Committee on Studies in the Humanities.
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<i>Professor of French</i>	Maurice Z. Shroder, Chairman
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<i>Assistant Professor of English</i>	Maire Kurrik
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<i>Assistant Professor of Music</i>	Gordana Lazarevich
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<i>Assistant Professor of Religion</i>	Elaine Pagels
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<i>Instructor in Art History</i>	Joseph Masheck
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The following courses are designed to permit students to broaden their knowledge of the humane tradition and to comple-

ment the kinds of specialization inherent in a major program.

Except where prerequisites are indicated, all courses are open to freshmen.

[1, 2. The Faust Theme in Literature and Music.

Professors Peters and Lazarevich. Not given in 1973-74.]

[3. The Myths and Symbols of Modernity.

Professors Gaster, Kurrik, and Ulanov. Not given in 1973-74.]

[4. Autobiography and Confession.

Professor Shroder. Not given in 1973-74.]

5. Women in Antiquity.

[9]

A study of the role of women in ancient Greece and Rome. Selected reading from historical, philosophical, literary, and epigraphical materials and examination of archaeological sources. The legal, economic, and social status of women; matriarchy and patriarchy; misogyny; female divinities; literary types and prejudices. Professor Sheffield. Tu Th 2:10-3:25.

6. The Homosexual in Literature.

[5]

The literary image of homosexuals and their experience of life, from antiquity to the present, with emphasis on the twentieth century. Some attention will be paid to the social and scientific attitudes of the periods considered. Readings from the Bible, Sappho, Plato, Petronius, Michelangelo, Shakespeare, Marlowe, Balzac, Whitman, Wilde, Proust, Gide, Djuna Barnes, Genet, Burroughs, and others. Professor Gustafson. M W F 2:10.

7. Class and Self in Modern European Literature.

[3]

Literary images of class-cultural values and the changing concept of the Self from 1848 to the present approached through 1) a contextual analysis of the work and 2) the modern reader's interpretations. Authors include: Dickens, Conrad, Flaubert, Nietzsche, Forster, Shaw, Gide, Mann, Lawrence, Orwell, and Sartre.

Professor Gavronsky. M W F 11.

**Humanities
V3003x-V3004y.**

**Readings in European and American Literature and
Philosophy of the Nineteenth and Twentieth Centuries.**

Moving from romanticism to the immediate present, the course focuses on the disintegration of traditional canons in ethics and esthetics, and the attempt to reestablish values in a world where their justification has become increasingly individual or relative. Among the problems likely to be considered are the following: language and reality, art and experience, the artist and society, transformations in the idea of drama, identity and alienation. Works by Diderot, Blake, Stendhal, Gogol, Kierkegaard, Flaubert, Melville, Dickens, Dostoevsky, Tolstoy, Nietzsche, Chekhov, Proust, Joyce, Kafka, Beckett, and others. Prerequisite: a grade of B or better in Humanities C1001-C1002 or permission of the instructor. Professor Babinski (V3003x) and Professor Stanton (V3004y). M W F 1:10.

The following departmental courses are included in this Interdepartmental Offering. For complete descriptions consult appropriate department listings.

English 58. Medieval Literature.

English 83. Modern Literature and the Allied Arts.

[English 86. Drama from Ibsen to the Present.]

[History-Italian V3199x. Petrarch's World.]

History-Italian W3197x. Dante's World.

Music V3042x. Aesthetic Disciplines in Music.

Oriental Humanities V3399x-V3400y. Colloquium.

Oriental Studies V3402y. Indian Aesthetics in Relation to Classical Poetry, Drama, Music.

Oriental Studies V3501x-V3502y. Seminar in Asian Literature.

Philosophy 34. The Concept of Beauty.

Philosophy 43, 44. Philosophical Implications of the Modern Novel.

Philosophy 61. Greek Philosophy.



<i>Professors</i>	Morton Klass, Abraham Rosman (Chairman; 411 A Milbank Hall)
<i>Associate Professors</i>	Paula G. Rubel, Joan Vincent ¹
<i>Assistant Professor</i>	Bette S. Denich
<i>Instructor</i>	Allen Maxwell
	Other officers of the University offering courses listed below:
<i>Professors</i>	Alexander Alland Jr., Edward P. Lanning, Robert F. Murphy, Elliott P. Skinner
<i>Associate Professor</i>	Ralph L. Holloway
<i>Assistant Professors</i>	George C. Bond, Myron L. Cohen, Shirley S. Gorenstein, Allen W. Johnson
<i>Lecturers</i>	John Attinasi, Robert Stigler
	¹ Absent on leave, 1973-74.

Anthropology is the study of the biological and cultural development of man, and of the contemporary variety of human societies and their cultures. The student majoring in this field will develop a perspective on man and his ways that is not bound by her own time and culture, and she will find herself drawing upon the literature of such different disciplines as genetics, archaeology, ethnography, linguistics, and the social sciences. While the study of anthropology contributes to a liberal arts education, the student will also receive adequate preparation for further study in graduate school, or for employment in the growing field of applied social change.

Every major is expected to have a general knowledge of all the fields of anthropology and of their interrelationship. Anthropology V1001, V1002 is required of all majors as a prerequisite to advanced work in the subject. All majors are also required to take Social Organization (V3011). Courses in archaeology, linguistics, physical anthropology and ethnographic areas are strongly recommended for majors. In the junior year, a major will take Anthropology 41 and 42, and in her senior year Anthropology 51-52, a seminar for independent research.

Several major museums and libraries in New York offer exceptional opportunities for research. Various summer schools offer opportunities for research in archaeology and ethnography, and under certain circumstances such work may be credited toward the Barnard degree. Students interested in cultural anthropology will be encouraged, whenever possible, to conduct actual research in the New York area, or, during their summer vacations, in other localities.

In lieu of a major examination, each student in the required senior seminar (51-52) will write a senior essay.

Basic Courses

§V1001x and V1001y. Introduction to the Study of Man.
 Man's biological and cultural evolution, as studied by physical anthropologists and archaeologists; introduction to anthropological linguistics. V1001x. Section 1 Professor Lanning. M W 11-12:15. Section 2 Professor Holloway. M W 7:10-8:25. Section 3 Professor Rosman. Tu Th 9:10-10:25. V1001y. Professor Alland Tu Th 4:10-5:25. Discussion hours to be arranged.

§V1002x and V1002y. Introduction to Cultural Anthropology.
 Comparative and functional analysis of culture; habitat, technology, and economy; social and political relations; ideology—magic, religion, and science; art, music, and literature; life cycles and personality. V1002x. Professor Murphy. M W 1:10-2:25. V1002y. Section 1 Professor Cohen. Tu Th 11-12:15. Section 2 Professor Murphy. M W 11-12:15. Section 3 Professor Rosman. Tu Th 9:10-10:25. Discussion hours to be arranged.

Linguistics
§V1101x, V1102y. Introduction to Linguistics.
 The nature of language. Characteristics of phonological and grammatical systems and of the lexicon. Evolution of language. Role of linguistics in related disciplines. Modern techniques of linguistic analysis. Linguistics V1001x is prerequisite to Linguistics V1102y. Section 1. Professor Reddy. M W 11-12:15. Section 2. Professor Jacobson. Tu Th 2:10-3:25. Section 3. Professor Castleman. Tu Th 7:40-8:55 p.m.

Intermediate Courses

§V3002y. Political Anthropology.
 The development and comparative study of political structure and government in non-western societies. Professor Bond. Tu Th 10-11:15.

§V3003x. Problems in Developing Countries.
 Analysis and comparison of political and social problems in developing countries. Professor Denich. Tu Th 10:30-12.

§V3004x. Introduction to Archaeology.
 The history, goals, theoretical frameworks, research designs, and techniques and methods for conducting archaeological research. The relationship of archaeology to anthropology, art history, history, and classics is examined. Professor Gorenstein. M W 1:10-2:25.

§V3005x. Peoples of Africa.
 Survey of African cultures, with intensive analysis of selected peoples. Professor Skinner. M W 1:10-2:25.

§V3006y. Peoples of Southeast Asia.
 Selective survey of traditional and changing Southeast Asian societies. Emphasis on cultural, social and ecological dimensions of tribal and peasant life. Mr. Maxwell. Tu Th 2:45-3:55.

[§V3007. Ethnology of Eurasia. Not given in 1973-74.]

- [§V3008. **Ethnology of North American Indians.** Not given in 1973-74.]
- [§V3009. **Peoples of the Middle East.** Not given in 1973-74.]
- §V3010x. **Native South America.**
An introduction to the peoples and cultures of native South America, including: prehistory; ecology; social relations; belief systems; effects of the Spanish conquest; and the impact of modern change. Professor Johnson. Tu Th 11-12:15.
- §V3011x. **Social Organization.**
The institutions and organization of social life, particularly in non-literate societies. Kinship and locality in the structuring of society. Prerequisite: an introductory anthropology course. Instructor to be announced. Tu Th 3:35-4:50.
- [§V3012y. **Economic Anthropology.**
Not given in 1973-74.]
- §V3013x. **Village India.**
Study of the peoples and problems of the South Asian countryside. Contemporary ethnographies and community studies will be utilized in the examination of socio-economic relationships, religion and culture change. Professor Klass. Tu Th 1:10-2:25.
- §V3026x. **Socio-cultural Dimensions of Poverty.**
A cross-cultural analysis and comparison of the effects of poverty on rural and urban populations. An investigation of the types of socio-cultural arrangement produced by poverty and its social and political implications. Professor Bond. M W 9-10:15.
- [§V3027y. **Culture and the Individual.**
Not given in 1973-74.]
- §V3029y. **The Archaeology of the New World.**
A survey of the prehistoric past of native American cultures from the time of the aboriginal settling of the New World by Asian immigrants to that of European contact. Special emphasis upon the rise of the New World civilizations in Mexico and Peru and the processes leading to their development. Prerequisite: a year of introductory anthropology. Dr. Stigler. M W 11-12:15.
- §V3032x. **The Archaeology of the Old World.**
A survey of the principal areas of cultural development in Europe, Asia, and Africa from the earliest beginning of human culture to the dawn of the first civilization. Prerequisite: a year of introductory anthropology. Dr. Stigler. M W 11-12:15.
- §V3033x. **Sociolinguistics.**
Geographical and social dialects; linguistic variation in the speech community; social evaluation of linguistic features; social problems of mutual intelligibility; linguistic change in progress. Mr. Attinasi. Tu Th 1:10-2:25.
- §V3034x. **Ethnolinguistics.**
Language diversity, relativity; world view and grammatical categories; processes and problems of change; language evolution. Covert classificatory systems; ethnotaxonomy; men's and women's speech; baby talk; age grading; taboos and euphemisms; secret languages and linguistic play; nature of speech events; discourse analysis. Mr. Maxwell. Tu Th 11-12:15.

- §V3036x. Peasant Societies.**
An introduction to pre-industrial agrarian social systems. Professor Cohen. Th 7:10-9:40.
- [§V3037y. Societies in Transition.** Not given in 1973-74.]
- §V3038x. Ethnic Relations in Changing Societies.**
Analysis and comparison of ethnic relations in settings of cultural pluralism, with special reference to developing countries. Mr. Maxwell. M W 10:30-11:50.
- [§V3039y. The Asian Experience in the United States.**
Not given in 1973-74.]
- §V3042y. Religion in Anthropological Perspective.**
Ideological systems of simple or preindustrial cultures. Relations between religion and other aspects of culture. Prerequisite: an introductory anthropology course. Professor Klass. Tu Th 1:10-2:25.
- [V3048x. Laboratory Techniques in Archaeology.**
Not given in 1973-74.]
- V3050y. Field Archaeology.**
Introduction to archaeological techniques and methods of excavation. Approximately seven field sessions, supplemented by classroom work. Students must pay for their transportation and food when on the trips. Prerequisite: permission of the instructor. Professor Lanning. S 9-12.
- §V3100y. Urban Societies.**
Evolution of cities. A cross-cultural view of kinds of urban formations. Examinations within an anthropological context of various aspects of urban life. Professor Rubel. Tu Th 3:35-4:50.
- [V3201. Physical Anthropology.**
Not given in 1973-74.]
- [§V3310y. Culture, Causality and Individual Freedom.**
Not given in 1973-74.]
- Interdepartmental Course 1y. Female and Male: An Interdisciplinary Approach.** [7]
Professors Komarovsky, Ehrenfeld, and representatives of the Departments of Anthropology and Psychology. May not be counted toward major. See page 66.

For Majors Only

- 41. History of Anthropological Theory.** [0]
Intellectual developments contributing to the formalization of anthropology as a discipline. The works of Montesquieu, Comte, Maine, Durkheim; and Marx will be considered, along with the theoretical writings of such anthropologists as Tylor, Morgan, Boas, Malinowski and Radcliffe-Brown. Required of all majors in their junior year. Professor Rubel. Tu Th 10:35-11:50.
- 42. Junior Colloquium on Current Anthropological Theory.** [0]
Intensive analysis of selected contemporary theoretical approaches and issues in anthropology. Required of all majors in their junior year. Prerequisite: Anthropology 41. Section 1 Professor Denich. Section 2 Mr. Maxwell. Section 3 Instructor to be announced.

Reading and research in anthropological theories of structuralism. Review of works of Claude Lévi-Strauss, Edmund Leach and others in relation to relevant work in linguistics, psychology, sociology and philosophy. Prerequisite: permission of the instructor. Professor Murphy. W 2:10-4.

Research in the metropolitan area. Primarily for seniors; all others require permission of the instructor. Professor Denich. Hours to be arranged.

Study of the local community and its relationship to regional and national societies. Discussion of plural societies, minority and ethnic groups in a cross cultural setting. Cases will be selected from Africa, Latin America, Asia, Europe, and North America. Professor Johnson. Tu 2-4.

Discussions and conferences on the researching and writing of the senior essay. Section 1 Professor Denich. Section 2 Professor Gorenstein. Section 3 Professor Klass. Section 4 Professor Rubel. Section 5 Section 6 Mr. Maxwell.
Hours to be arranged.

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



<i>Professor</i>	Barbara Novak (Chairman; 301B Barnard Hall), John Kouwenhoven (English)
<i>Adjunct Professor</i>	Brian O'Doherty
<i>Associate Professor</i>	Dorothea Nyberg
<i>Assistant Professor</i>	Susan Koslow
<i>Instructors</i>	Joseph Masheck, Jane Rosenthal
<i>Visiting Artists</i>	Milton Resnick, Victoria Barr
	Other officers of the University giving instruction in Barnard College:
<i>Assistant Professors</i>	William A. P. Childs, Ellwood C. Parry III, Eugene Santomaso
	Other officers of the University offering courses listed below:
<i>Professors</i>	James Beck, Robert Branner, Howard McP. Davis, Alfred Frazer, Howard Hibbard
<i>Associate Professors</i>	Miyeko Murase, Dustin Rice, David Rosand, Allen Staley
<i>Assistant Professors</i>	Cornelius Chang, Alessandra Comino, Wayne Dynes
<i>Lecturer</i>	William Bartholomew
<i>Associate</i>	Rosemarie Bletter

Art is a unique form of human experience. A study of its history will often provide a surprisingly vivid insight into the intellectual currents, the religious doctrines and practices, and the social institutions of the past. The student will see to what extent the unfolding of art is determined by conditions existing outside it, and by the impetus given it by the great creative personalities. She will in consequence gain a deepened understanding of the art of our own time and an ability, often fully appreciated only after she has left college, to enjoy intelligently the great accumulation of art in museums all over the world.

Courses in the department of Art History are designed to take advantage of the resources of New York, one of the world's great centers of art. A limited number of studio courses are also offered at Barnard; in addition, students are encouraged to take any course for which they qualify in the Department of Painting and Sculpture, School of the Arts of Columbia University. See page 82, for regulations governing these courses. Studio courses do not count towards the major.

Students who want to major in Art History must take at least nine courses in the department. They should select a full-time member of the department as their adviser, preferably during their sophomore year and not later than the beginning of their

junior year. They should plan their academic program in consultation with this adviser. The department strongly suggests that majors take Course 1, 2, and thereafter they must take at least one advanced course in ancient, medieval, renaissance, baroque and modern art, so as to be able to appreciate the variety of artistic expression in different countries and periods. At least five courses in the major should be Barnard courses. Students may register their major as art history with emphasis on architecture. Address inquiries regarding an architectural emphasis to Professor Nyberg; address inquiries regarding an art history major to Professor Novak.

Majors are required to take at least three seminars, two at Barnard. Seniors in Art History are required to write a senior essay, which may be an expansion of a paper for any seminar. Under special circumstances and with the chairman's permission, a limited number of seniors may elect Art History 99x or y, independent research for the senior essay. Art History 99x or y may not be used to fulfill the seminar requirement, but can be taken in addition to the three required seminars.

Students planning to do graduate work should obtain a reading knowledge of at least two of the foreign languages in which the major contributions to the history of art have been made. (Most graduate schools require a reading knowledge of French and German; the department strongly recommends taking German while at Barnard.)

The Program in the Arts: Those students contemplating a career in studio art should see the announcement on the Program in the Arts, pages 54-56, and should consult with Professor Novak at the earliest possible time.

§1, 2. Introduction to the History of Art. [4]

A study of the art historian's method and a historical survey of Western architecture, sculpture, and painting. Emphasis will be given to the interpretation of form and content and the correlation of the visual arts with their respective cultural environments. Either course may be taken separately. Autumn Term: Greek and classical art, medieval art. Spring Term: Renaissance to modern art. Mrs. Rosenthal. M W 1:10-2:25.

[V3080x. **Pre-Columbian Art.**
Not given in 1973-74.]

[W3056y. **Art of Africa, Oceania, and North America.**
Not given in 1973-74.]

- [§W4180y. **Egyptian Art and Archaeology.**
Professor Farkas. Not given in 1973-74.]
- [§48. **Ancient Near Eastern Art.**
Professor Farkas. Not given in 1973-74.]
- [W4173x. **Anatolia and Syria-Palestine.**
Professor Porada. Not given in 1973-74.]
- §V3248x. **Greek Art and Architecture.**
An examination of the principal monuments and themes of Greek art in sculpture, painting, architecture, and city planning from the Mycenaeans to the Roman conquest. Professor Frazer.
Tu Th 2:10-3:25.
- §46. **Myth and Art in Greece.** [7]
The changing representation of mythological and religious themes in Greek painting and sculpture from the late Geometric to the Hellenistic period. Emphasis will be on the development of specific cycles of myths of heroes and gods with reference to their historical contexts. Readings in ancient sources in translation and modern criticism. Prerequisite: Course 45 (now V3248x). Professor Childs.
Tu Th 10-11:15.
- [§V3250y. **Roman Art and Architecture.**
Professor Childs. Not given in 1973-74.]
- §51, 52. **Medieval Art.** [13]
Autumn Term: Christian art from its beginnings in the late antique world in Mediterranean countries through the early Christian and Byzantine periods, with emphasis on mosaics and illuminated manuscripts, followed by the Celtic and Carolingian styles of western Europe. Spring Term: Romanesque sculpture and architecture of Italy and France, and Gothic architecture, sculpture, and painting, ending with the introduction of the Italian Renaissance into France. Mrs. Rosenthal. Tu Th 3:35-4:50. Visits to the Metropolitan Museum of Art, the Pierpont Morgan Library, and the Cloisters.
- W4375x. **Gothic Art in the Thirteenth Century.**
Origins and development of the Rayonnant Style: architecture, sculpture; illumination; and stained glass. A reading knowledge of French is highly desirable. Professor Branner. W 2:10-4.
- [53. **Christian Iconography.** Not given in 1973-74.]
- [54. **Byzantine Art.** Not given in 1973-74.]
- §V3140y. **Imagery and Tradition in Western Art.**
The innovation and diffusion of some leading themes in Western art from ancient Greece to the present, and their relation to other manifestations of culture. Among the topics are epic and heroic cycles, political propaganda, icons and iconoclasm, Neoplatonic and emblematic imagery, nature mysticism, the found object, and the artistic process as subject. Professor Dynes. M W 11-12:15.
- [W4352x. **Romanesque Architecture**
Professor Branner. Not given in 1973-74.]

- [§61. **European Architecture from the Renaissance through the Rococo Style.**
Professor Nyberg. Not given in 1973-74.]
- §V3420y. **Italian Sculpture during the Renaissance.**
A survey of developments from the thirteenth to the sixteenth century, with special attention to the art of Nicola Pisano, Giovanni Pisano, Donatello, Quercia, and Michelangelo. Professor Beck. Tu Th 2:10-3:25.
- §C3633x. **Italian Renaissance Painting.**
Painting in Italy from the revival of painting in the late thirteenth century to the early sixteenth century. Emphasis on the Early Renaissance and on a close analysis of the works of Giotto, Masaccio, and Piero della Francesca. The High Renaissance is discussed less fully, with stress on Leonardo da Vinci and Michelangelo and their role in the continuity of tradition. Professor Davis. Tu Th 11-12:15.
- §W4437y. **Italian Painting of the Sixteenth Century.**
The styles and significance of painting in Italy, with discussion of the concepts of High Renaissance and Mannerism. Emphasis on major figures: Leonardo, Raphael, and Michelangelo; Giorgione, Titian, Veronese, and Tintoretto; Correggio and Parmigianino. Professor Rosand. Tu Th 9:35-10:50.
- §60. **Sixteenth Century Painting in Northern Europe.** [4]
Renaissance, Gothic, and Realistic trends will be considered in a survey of painting in the Netherlands and Germany with stress on Dürer, Grünewald, Cranach, Bosch, van Orley, Aertsen and Bruegel. Mrs. Koslow. M W 1:35-2:50.
- §C3688y. **Northern European Painting.**
Renaissance humanism and realism, the tradition of satiric imagery and the emergence of the Baroque, particularly in Flanders and Holland, with emphasis on Jan van Eyck, van der Weyden, Bosch, Bruegel, and Rembrandt. Professor Davis. Tu Th 11-12:15.
- §75, 76. **European Painting since the Renaissance.** [7]
Autumn Term: Baroque and Rococo. Painting in Italy, France, England, Flanders, Holland, and Spain from 1600 to the middle of the eighteenth century with emphasis on Caravaggio, the Carracci, Poussin, Rubens, Rembrandt, Velasquez, Watteau, Hogarth, and Tiepolo. Spring Term: Neoclassicism, Romanticism, Realism, Impressionism, and Post-Impressionism. Painting from the late eighteenth century to 1900. Emphasis will be on the developments in France, from David to Cezanne and Seurat, but with attention to Goya, Constable, and Turner as well. Mr. Masheck. Tu Th 10:35-11:50.
- §V3500x. **Seventeenth Century Art.**
Painting and sculpture in Western Europe. The Baroque style in relation to its cultural background, with emphasis on Bernini, Borromini, Rubens, Velasquez, Rembrandt, and Poussin. Professor Hibbard. M W 1:10-2:25.
- W4518y. **Baroque Architecture in Italy.**
Professor Hibbard. Tu 10-11:50.

- §57, 58. Baroque Art in Northern Europe. [3]**
 Autumn term: Rubens and the development of Baroque style in the southern Netherlands. Spring term: Seventeenth century Dutch painting with special emphasis on Rembrandt and Vermeer. Professor Koslow. M W 11-12:15.
- [V3748y. European Painting in the Eighteenth Century.**
 Professor Staley. Not given in 1973-74.]
- [64. European and American Sculpture, Baroque to Modern.**
 Professor Nyberg. Not given in 1973-74.]
- §69. French Architecture 1500-1800. [13]**
 The cohesive tradition of French architecture with major emphasis on such figures as Delorme, Salomon de Brosse, Lemercier, Mansart, Le Vau, Perrault, Hardouin-Mansart, Meissonnier, Servandoni, and Soufflot. Professor Nyberg. Tu Th 3:35-4:50.
- [§70. European and American Architecture from the Eighteenth Century to the Present.**
 Professor Nyberg. Not given in 1973-74.]
- §83. Art and Architecture of Great Britain and Ireland. [9]**
 Painting, sculpture, and architecture in the British Isles from the Elizabethan age to modern times. Some consideration of relations with the Continent, and the effects of nationalism and colonialism. Emphasis on such major figures as Jones, Wren, Burlington, Hogarth, Adam, Blake, Constable, Ruskin, and Morris, and on British contributions to modernism in painting and sculpture. Mr. Masheck. Tu Th 2:10-3:25.
- §77. American Art from Colonial Times to the Armory Show. [5]**
 The development of the arts in America from Colonial times to the Armory Show of 1913 with special emphasis on Realism and Romanticism in the nineteenth century. Open to all except freshmen. Professor Novak. M W 2:35-3:50.
- [§79. The Arts in Spain from the Golden Age to the Present.**
 Professor Collins. Not given in 1973-74.]
- §62. Photography and the Arts. [3]**
 Survey of the interrelationship of artistic and photographic vision from the early nineteenth into the twentieth century. Landscape, still life, and portrait images by major artists and photographers in Europe and America. Professor Parry. M W 11-12:15.
- [§C3681. American Art in the Twentieth Century. Not given in 1973-74.]**
- §C3833x. Modern Architecture.**
 Tendencies in twentieth-century architecture and city planning as related to other cultural developments. Origins of the modern movement in the stylistic and technological developments of the nineteenth century. Major contemporary contributions. Limited to 100 students. Sign up in 809 Schermerhorn. Professor Santomaso. M W 12-1:15.

V3662y. Cities and Planning.

Characteristic forms of cities since ancient times. Analysis of the purpose and meaning of forms of preplanning that have been suggested, especially since the Renaissance. Limited to 60 students. Sign up in 809 Schermerhorn. Professor Collins. M W 12-1:15.

§84. (English 84). The Vernacular in the American Arts of Design

[10]

The conflict between the "cultivated" and "vernacular" styles. The development of an American aesthetic in technology, architecture, fine arts, literature, and other arts. Professor Kouwenhoven. W 3:10-5:25.

§78. Introduction to Painting and Sculpture of the Twentieth Century.

[5]

A summary of the principal stylistic developments of the period in question through presentation and discussion of selected artists and their work. Emphasis will be placed on the movements of Fauvism and Expressionism, Cubism, Dada, and Surrealism, as well as on post-war developments in Europe and America. Mr. Masheck. M W 2:35-3:50.

[94. Art of India. Not given in 1973-74.]

§V3201x. Arts of China. (formerly A. H. 91)

A survey of Chinese art from the Neolithic to the last dynastic period of Ch'ing, with emphasis on bronzes, Buddhist art, and great landscape painting of the Sung and later periods. Attention also to the arts of Central Asia and India as they affect the arts of China. Professor Chang. Tu Th 4:10-5:25.

§V3203y. Arts of Japan. (formerly A. H. 92)

A survey of the development of Buddhist art and architecture in Japan as they were introduced from China, including the arts of later periods, with special emphasis on the formation of indigenous art forms such as narrative scroll-painting, decorative screens, and wood-block prints. Professor Murase. Tu Th 4:10-5:25.

Seminars

C3936x. Gothic Sculpture in Europe.

Study of Gothic sculpture in western Europe from the twelfth to the late fifteenth century. Emphasis will be on figural sculpture in France, Germany, and Italy; and wood sculpture of the fifteenth century in northern Europe. Visits to metropolitan area museums. A term paper is required. Colloquium limited to 20 students. Mr. Bartholomew. Tu Th 9:35-10:50.

C3933y. Medieval Art at the Cloisters.

Study of medieval sculpture, painting and minor arts in the Cloisters collection. Classes will meet at the Cloisters Museum and will involve firsthand study of art objects. (Note: students should allow time for transportation to and from the museum in scheduling other classes.) Colloquium limited to 12 students of junior or senior standing. Enrollment by interview. Date of interviews to be announced in fall. Mr. Bartholomew. W 1:10-3:40.

[80. Landscape in American Art and Photography.

Professor Parry. Not given in 1973-74.]

- [C3974x. Seminar in Prints and Drawings.**
Professor Rosand. Not given in 1973-74.]
- C3979y. Seminar in Romanticism.**
Prerequisite: junior standing and the instructor's permission. An examination of various interrelated thematic strands in the arts of Italy, France, England, and Germany between 1750 and 1850. Professor Staley. Th 2:10-4.
- C3901x. Colloquium on Munich and Vienna, 1880-1918.**
Prerequisite: junior standing and instructor's permission. An exploration of art and architecture at the turn of the century in Munich and Vienna, with emphasis on parallel developments in philosophy, literature, music, and the dance. Student reports may focus on individual artists or on pertinent intellectual trends. Professor Comini. W 4:10-6.
- C3977y. The Portrait in Modern Art.**
Prerequisite: junior standing and the instructor's permission. The shift from facade to psyche in the portraiture of recent European and American art movements. Cultural and biographical content; body imagery; existential or environmental; allegory as confession; the phenomenon of the self; influences of literature, photography, and the dance. Professor Comini. Th 4:10-6.
- C3982y. Dada and Surrealism.**
Intensive examination of the movements in Europe and America. Oral and written reports as well as the creation of works of art under the instructor's guidance. Prerequisites: Junior standing and permission of the instructor. Professor Rice. M 2:10-4.
- C3955x. Seminar in German Expressionist Film and Art.**
Prerequisite: junior standing and the instructor's permission. Topics include such films as *The Cabinet of Dr. Caligari*, *Golem*, *Metropolis*, and such groups as the Bruecke, Arbeitsrat, and the Novembergruppe. Emphasis on the merging of the various media, and their debt to literary and theatrical ideas. Mrs. Bletter. F 10-11:15. Film screenings. M 3:10-6 in 502 Hamilton.
- [C3975x. Seminar on the Bauhaus.**
Mrs. Bletter. Not given in 1973-74.]
- 71. Problems of Style. [0]**
After a common consideration of the nature of style, and of art historical periodization, students will present reports applying these notions to materials from the history of design. Topics include architectural ornament, the porcelain factories of the eighteenth century, iron bridges, and early industrial design. Attention to quality of workmanship and other aesthetic judgments and to the place of such works in art history. Mr. Masheck. W 10-12.
- 81, 82. The Literature of Art. [0]**
Study of the literary sources used in art historical research; artists' letters, journals and treatises (by Leonardo, Rubens, Delacroix, Van Gogh), contemporary biographies (Vasari and Van Mander), the ideas and writings of leading critics and scholars (Fromentin, Baudelaire, Ruskin, the Brothers Goncourt, Huizinga, Burckhardt, Wolfflin, Worringer, Berenson, Fry, Panofsky, Gombrich, Read,

Malraux). The Autumn Term will be devoted largely to writings of the artists and their contemporary critics. The Spring Term will be devoted to theories of modern criticism and scholarship. Intended for junior majors but also open to senior majors. Professor Novak. M 10-11:50.

90. The Altarpiece: Special Problems in Devotional Imagery. [0]

Types, programs, iconography and liturgical functions of altarpieces will be considered. Emphasis will be placed on the developments in the Netherlands in the fifteenth century, but Italian, German and Spanish types will also be studied. Professor Koslow. M 2:10-4.

86. Seminar in Art Criticism. [0]

A workshop in writing criticism. Short weekly assignments on such matters as Language, Experience, Narrative, and the Object. A close examination of Process. Students will write art criticism based on their gallery visits and will refer to current and previous criticism. Professor O'Doherty. F 10-11:50.

93. Seminar in Rogier van der Weyden. [0]

An examination of the manifold aspects of the art of Rogier van der Weyden including his disguised symbolism, stylistic sources, and Netherlandish and German sculpture in his orbit. Permission of the instructor required. Professor Koslow. Tu 10:35-12:25.

[C3976y. The Image of the Indian and the Black Man in American Art.
Professor Parry. Not given in 1973-74.]

C3666y. Architecture since 1945.

Analysis of recent architectural theory and design based upon primary source materials. Topics include the work of Frank Lloyd Wright, LeCorbusier, Aalto, Kahn, Venturi, Moore, Team 10, and such visionaries as Buckminster Fuller, Archigram, the Metabolists, Soleri, and others. Readings, class discussions, and written reports. Prerequisite: Art History C3833 or comparable course; junior standing and the instructor's permission. Mr. Santomasso. Tu 4:10-6.

96. Seminar in European Rococo Art and Architecture. [0]

The painting, sculpture, and architecture of the first half of the eighteenth century will be studied in the light of the international culture of Europe. Special emphasis will be placed on Watteau, Chardin, Meissonnier, Boffrand, Juvarra, Specchi, and Hawksmoor. Registration limited to 15 students. Permission of the instructor required. Professor Nyberg. W 10-11:50.

C3663x. Seminar on Modern Architecture of the '20's and '30's in Europe and America.

A study of the theory and practice of architecture of these years with a view to cross-influences and parallels between European and American developments, comparable objectives in certain architectural movements, and the relation of architecture to other arts. Readings from primary sources. Prerequisites: AH C3833 or a comparable course, and permission of the instructor. Mr. Santomasso. Tu 4:10-6.

[97. Art and Propaganda. Not given in 1973-74.]

[98. Social and Political Functions of Architecture.
Professor Nyberg. Not given in 1973-74.]

99x, 99y. Independent Research for Seniors.

Independent research for the senior essay, under a chosen faculty adviser and with the chairman's permission. Hours to be arranged.

Studio Courses

A maximum of four courses of studio work may be credited. Columbia courses or sections which offer only 2 points do not count for Barnard credit. Students taking more than two courses of studio work are required to validate the additional credit courses in art history. Studio courses 3, 4 and 5, 6 are given at Barnard and no special permission is needed to take those courses.

3, 4. Studio Painting. [0]

Studio course in painting with acrylic and oil. Supplementary instruction in drawing and the use of color. Emphasis is on individual development. Miss Barr. Tu Th 2-5.

5, 6. Advanced Drawing and Painting. [0]

A course designed to teach students basic skills by setting specific tasks to be executed both in drawing and in painting. Occasional use of life models. Limited to fifteen students. Mr. Resnick. F 1-5.

The remainder of studio courses are given at the School of the Arts, in Dodge Hall, and students may register for these only with written permission of the departmental representative (Professor Andre Racz). For further details see the Bulletin of the School of the Arts. Credit for the following: one course each term.

Drawing R1001x, R1002y; R1003x, R1004y. Drawing Workshop.

Model fee: \$10 per term. Professor Racz, and Messrs. Stewart and Lund. Section I M W 9-11:50. Section II M W 1:10-4. Section III M W 7:10-10. Section IV Tu Th 7:10-10.

Painting R1011x, R1012y; R1013x, R1014y. Painting Workshop.

Model Fee: \$10 per term. Professors Goldin and Heliker, and Mr. Stefanelli. Section I M W 1:10-4. Section II Tu Th 1:10-4. Section III M W 7:10-10. Section IV Tu Th 7:10-10.

Printmaking R1041x-R1042y. Woodcut and Wood Engraving.

Laboratory Fee: \$20 per term. Mr. Uchima. M W 7:10-10.

Printmaking R1043x-R1044y. Etching and Engraving.

Laboratory Fee: \$20 per term. Professor Harrison. Section I Tu Th 1:10-4. Section II Tu Th 6:10-9 (graduate section also open to qualified undergraduates).

Printmaking R1045x-R1046y. Lithography and Drawing.

Laboratory Fee: \$20 per term. Mr. Blackburn. M W 1:10-4.

Sculpture R1023x-R1024y. Sculpture Workshop.

Model Fee: \$20 per term. Miss Linder. Section I Tu Th 1:10-4. Section II Tu Th 7:10-10.

Sculpture R1025x-R1026y. Carving and Design.

Laboratory Fee: \$20 per term. Miss Arnold. M W 7:10-10.

Sculpture R1027x-R1028y. Welding and Design.

Laboratory Fee: \$25 per term. Mr. Swarz. Section I M W 9-11:50.
Section II M W 1:10-4.

Graduate Courses

Certain graduate courses given in the University are open to qualified majors with the consent of the chairman of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



<i>Professors</i>	William A. Corpe, Donald D. Ritchie (Chairman; 1205 Altschul Hall)
<i>Associate Professors</i>	Patricia L. Dudley, David W. Ehrenfeld, Frederick E. Warburton
<i>Assistant Professor</i>	Maya D. Menon
<i>Assistant</i>	Cristina Palacio
	Other officers of the University offering courses listed below:
<i>Professors</i>	Sherman Beychok, Charles R. Cantor, James E. Darnell, Howard Levene, Cyrus Levinthal, Frank G. Lier
<i>Associate Professors</i>	Walter J. Bock, Eric Holtzman, Alberto L. Mancinelli
<i>Assistant Professors</i>	F. Carter Bancroft, Lawrence A. Chasin Michael J. Schneider, Ronald R. Sederoff, James A. Wechsler

The major program is designed to serve a variety of needs. Some students interested in general education major in biology because they desire specific knowledge of living organisms. Other students specialize in biology in anticipation of graduate work in this field, or in preparation for medical or dental school. Still others plan a career in government, educational or private research organizations, or they may wish to teach at the elementary or intermediate school level.

The sequence of courses to be followed depends on the ultimate aims of the student and is planned in consultation with members of the department. Planning of the course sequence in biology and related fields is necessary to provide a balanced program and to assure that prerequisites for advanced courses are completed in time.

Course 1-2 should be elected by those students who had a standard biology course in high school, as well as by those who have had no previous training in biology. Some courses taken outside the department may be counted toward a biology major: Anthropology V3201x, Chemistry C3072y, and Psychology 17.

If given special permission, qualified students may take courses offered in the graduate school. They should consult the Bulletin of the Graduate School of Arts and Sciences and their major advisers.

Three or four chemistry courses, chosen in consultation with an adviser, fulfill the minimum requirements in chemistry for graduate work in biology and for entrance into medical school and this amount is generally regarded as the minimum for biology majors as well. Students interested in ecology or evolution should take Geology V1021x and V1022y. A year of

general physics should be taken by majors who plan on graduate work or a career in medicine. Graduate work in biology requires a knowledge of German and French (or some other modern language). College mathematics, including calculus, is strongly recommended.

The Undergraduate Record Examination is given as the major examination. Students are encouraged to do summer work in biological laboratories or field stations. Assistance toward such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund or the Herbert Maule Richards Fund.

Research projects may be selected by students desiring to do individual work. They are usually related to current faculty research and may lead to professional publication. Greenhouse space and laboratory equipment are made available for such projects.

1-2. General Biology. [1]

The development of biological knowledge, with emphasis on unsolved problems and the nature of scientific evidence; energy relations of living things, cellular activities, inheritance, development and differentiation, evolution, animal physiology, ecology, and social implications. Professors Ehrenfeld, Menon, and Ritchie. Lec. M W F 9. Lab. (3 hours) M 1:10-4; Tu 9-11:50; 2:10-5; W 1:10-4; Th 9-11:50; 2:10-5; F 1:10-4.

C1007x. General Biology
Professors Bancroft and Darnell. Lec. M W F 11. Rec. 2 hours to be arranged.

C1008y. Project Laboratory in General Biology.
Professor Wechsler. Lab. 8 hours to be arranged.

4. Natural History of the New York Area. [0]

Field observations of plants, fungi, birds, reptiles, amphibians, lower invertebrates and arthropods. Methods of identification, collection, preservation. Visits to a wide variety of ecosystems, both semi-wild and altered by man. Written permission of the instructor required. Professors Ehrenfeld, Ritchie, and Warburton. Field trips, laboratory, and discussions. Hours to be arranged. One course credit, part in Autumn and part in Spring Term.

5. Introduction to Genetics, B. [8]

Mendelian and quantitative genetics of plants, animals, and man: segregation, recombination, measurement of linkage, and the genetics of continuous variation. Cytogenetics. Developmental genetics. Population genetics and evolution. Human genetics will be emphasized where it exemplifies general principles. Prerequisite: a course in introductory biology; calculus or statistics, or permission of the instructor. Professor Warburton. Lec. Tu Th 11. 1 hour recitation and demonstration.

6. Evolution. [1]

The modern theory of evolution; the genetic and ecological mechanisms which adapt organisms to their environments and increase the diversity of species. Prerequisite: Biology 1-2 or equivalent. Professor Warburton. Lec. M W F 9. Laboratory-conferences (4 hours) to be arranged.

7. Invertebrate Zoology. [8]

The biology of invertebrate animals: Comparative fine and gross structure, development, physiology and autecology. Major emphasis on marine invertebrates. Laboratory-demonstration includes a survey of major groups and an individual project on the ultrastructure, physiology, or ecology of an invertebrate animal. Prerequisites: a year of college-level biology and permission of the instructor. A course in cell biology is recommended. Professor Dudley. Lec. Tu Th 11-12:15. Lab/demonstration (4 hours) W 1:10-5 or Th 2:10-6.

8. Physiological Ecology. [4]

The interactions of invertebrate and vertebrate animals with their physicochemical environment. Comparative physiology of responses to varying environmental stimuli; the concept of the niche; dynamics of population structure and oscillations; competition, cooperation and other interspecies interactions; ecological energetics. Prerequisites: a year of college-level biology and permission of the instructor. A course in general chemistry is recommended. Professor Dudley. Lec. M W F 1:10.

10. Microbiology. [5]

General and applied aspects of microbiology. The importance of microbes in aquatic, terrestrial, and human environments. Prerequisite: 1 year of college biology, general chemistry and permission of the instructor. Professor Corpe. Lec. M W 2:10. Lab. M W 3:10-5.

12. Cytology. [7]

The biology of cells: composition, development, and activities of cell walls, membranes, mitochondria, plastids, and chromosomes. Laboratory includes practice in fixation, sectioning, homogenization, smears, photomicrography, and specialized types of microscopy, including electron microscopy. Prerequisite: a year of biology with laboratory. Permission of the instructor required. Professor Ritchie. Lec. Tu Th 10. Lab. (4 hours) individually arranged.

13y. Conservation Ecology. [3]

The conservation of natural communities and species. Emphasis will be placed on the influence of human population increase and the growth of technology on the current bio-environmental crises. The interaction between ecological theory and conservation practice will be stressed. Limited to 30 students. Prerequisite: a year of biology and permission of the instructor. Professor Ehrenfeld. Lec. M W F 11 and conf. to be arranged.

Interdepartmental Course 1y. Female and Male: An Interdisciplinary Approach. [7]

Professors Komarovsky, Ehrenfeld, and representatives of the Departments of Anthropology and Psychology. May not be counted toward major. See page 66.

16x. Physiology of Multicellular Organisms. [4]

An interpretation of vital phenomena on the organ level. Topics to be discussed include the major body systems and their functional relationships. Prerequisite: one course each in biology, physics, organic chemistry and written permission of the instructor. Professor Menon. Lec. M W 1:10-2. Conf. F 1:10-2. Lab. 4 hours to be arranged.

[20. Laboratory in Animal Behavior.

Professor Ehrenfeld. Not given in 1973-74.]

22. General and Comparative Endocrinology. [4]

Chemical integration by hormones and related aspects. Coordination systems of invertebrates and vertebrates from a comparative point of view. Mechanisms of hormone action, ultrastructure of endocrine glands, neurosecretory cells, neuroendocrine relationships and bioassay methods. Prerequisites: one course each in biology, physics, organic chemistry, and one term of physiology and written permission of the instructor. Professor Menon. Lec. M W 1:10. Conf. F 1:10. Lab. 4 hours to be arranged.

W3002y. Structure and Function of Animals.

Professor Bock. Lec. M W F 9. Labs. Sec. 1: M 1:10-5. Sec. 2: M 6:10-10. Sec. 3: W 1:10-5. Sec. 4: Th 1:10-5. Sec. 5: F 1:10-5.

C3014y. Topics in Plant Biology.

Professor Mancinelli. Tu Th 2:10-3:25.

C3015x. Developmental Physiology of Plants.

Professor Schneider. Lec. W 4:10-6. Rec. 1 hour to be arranged.

W3022x. Developmental Biology.

Professors Bancroft, Cantor, and Levinthal. Tu Th 10 and W 12.

C3032y. Introduction to Genetics, A.

Professor Sederoff. Lec. M W F 1:10.

W3040x. Laboratory in Cell and Developmental Biology.

Miss Arnold, Professor Holtzman, and Staff. Lec. Tu 12:30-1:20. Lab. Section I Tu 2:10-6, Section II W 4:10-8, Section III Th 1:10-5. Additional hours for each section to be arranged.

W3041y. Cell Biology.

Professor Holtzman. Tu 11-12:15 and Th 11-12:30.

C3044y. Project Laboratory in Cell Culture.

Professor Chasin. Lab. 8-12 hours to be arranged.

C3077x. Introduction to Quantitative Biology.

Professor Levene. Tu Th 11-12:15.

Biology- Urban Ecology.

Geology W3092y. Professors Broecker, Levinthal, and Simpson. Tu Th 1:30-2:45.

C3094x. The Biosphere.

Professor Mancinelli. Tu Th 2:10-3:25.

W3241x. Structure and Interactions of Plant and Animal Communities.

Professor Lier. Tu Th 4:10-5:25.

**Biology-
Chemistry C3501x.**

Biochemistry I.

Professor Beychok. M W F 10. Required Rec. one hour to be arranged.

61, 62. Problems in Biology.

[0]

Independent work will be planned to suit the needs of the student after consultation with the instructors. Staff. Hours and credit by arrangement.

71. Senior Seminar.

[0]

Reading of literature and discussion of fundamental problems of biology. Professor Warburton. Hours by arrangement.

G4061x. Biology of Microorganisms.

Morphology and chemical, physical, and antigenic structure of microbial cells; growth, general physiology, genetics, and mechanisms of metabolic control; aspects of pathogenicity and immunity to disease. Prerequisites: one year college biology, one course in biochemistry, and permission of the instructor. Professor Corpe. Lec. Tu Th 2:10.

G4062y. Microbial Ecology.

Introduction to the basic principles of microbial ecology. Behavior, activities, and interrelationships of microorganisms in natural ecosystems, with emphasis on their structural, physiological, and biochemical functions. Laboratories are concerned with procedures used for study of microorganisms in natural environments. Individual projects. Prerequisites: Biology G4061 or 10 and a year of organic chemistry or their equivalents, and permission of the instructor. Professor Corpe. Lec. Tu Th 2:10. Lab. hours to be arranged.



<i>Professor</i>	Edward J. King ¹
<i>Associate Professor</i>	Bernice G. Segal (Chairman; 605 Altschul)
<i>Assistant Professors</i>	Marie D. Francia, Jacqueline I. Kroschwitz, Alexander R. Mazziotti
<i>Lecturer</i>	Grace W. King ¹
<i>Assistants</i>	Barbara Goodstein, Olympia Jebejian, Libby Miller, Carol Zitrin

¹ Absent on leave, 1973-74.

Chemistry majors seek to understand the nature of substances and their transformations. Upon graduation, some chemistry majors obtain research positions in chemical industry and medical laboratories. Others become technical writers or editors or science librarians. Many continue with graduate work in chemistry or related sciences or enter medical and other professional schools.

A student who is interested in chemistry should consult a representative of the department for advice in planning her program. In the first year she should take Courses 1 or 11 and 30 and start or continue the study of calculus. It is then possible for her to fulfill the basic requirements for the major in three years and to take advanced courses in the senior year. Students who have taken an Advanced Placement Course in secondary school may be given advanced placement and credit if they obtain a score of 4 or 5 on the examination and present evidence of satisfactory laboratory experience. A list of major requirements, several possible course sequences, and information about the major examination may be obtained from members of the department. Majors who complete a specific program receive an accrediting certificate from the American Chemical Society.

Students may also pursue a major in Biochemistry which supplements the basic courses in chemistry with courses in biology and two of the university courses in biochemistry. A list of major requirements in biochemistry may be obtained from members of the department.

The new laboratories of the department are modern and well equipped both for course work and for independent projects. Experience with modern instruments begins in the first-year course. Students may undertake independent projects under the guidance of members of the department. This has been done recently during both the academic year and the summer, and some of the work has been published in chemical journals. Short projects may also be undertaken in several of the courses of the first three years.

Variable amounts of laboratory work are possible in several courses, as noted in the course listings. One four-hour laboratory per week counts as a laboratory unit; two such units count as one course credit. Chemistry majors take at least four laboratory units distributed between Courses 38, 61, and 68.

1. **General Chemistry IA.** [6]
The particulate nature of matter in various states. Chemical transformations of matter, especially of ionic substances. Chemical kinetics, energetics, and equilibrium. Laboratory experience with both qualitative and quantitative techniques. Professor Segal, and assistants. Lec. Tu Th 9:10-10:25. Recitation and laboratory, one afternoon: M, Tu, W, Th, or F 1:10-5.
2. **General Chemistry II.** [6]
Atomic and molecular structure. The chemistry of selected elements with particular attention to carbon. Biochemical reactions. Primarily for majors in fields other than science. Prerequisite: Course 1 or permission of the instructor. Professor Mazziotti, and assistants. Lec. Tu Th 9:10-10:25. Recitation and laboratory, one afternoon: M or Tu 1:10-5.
- [11. **General Chemistry IB.** Not given in 1973-74.]
30. **Organic Chemistry I.** [6]
Atomic and molecular structure. An introduction to aliphatic and aromatic chemistry with emphasis on modern theories. Laboratory work stresses acquisition of basic techniques. Prerequisite: Course 1. Professor Kroschwitz and assistants. Lec. Tu Th 9:10-10:25. Laboratory, one afternoon: M, Tu, W, or Th 1:10-5.
31. **Organic Chemistry II.** [3]
More advanced aspects of organic chemistry and an introduction to biological macromolecules. Required for biology majors and pre-medical students. Prerequisite: Course 30. Professor Kroschwitz. Lec. M W F 11.
32. **Intermediate General Chemistry.** [3]
Selected aspects of general chemistry, primarily for premedical students without the background for Chemistry 36 or V3059x. Thermochemistry, chemical equilibrium, complex ions and coordination compounds, and nuclear chemistry with applications to analytical chemistry and biochemistry. Optional parallel laboratory work: one afternoon under Chemistry 38. Prerequisite: Organic Chemistry II. Professor Francia. Lec. M W F 11.
33. **Intermediate Chemistry Laboratory I.** [18]
An introduction to qualitative and quantitative organic analysis and to advanced techniques, including instrumental and chromatographic methods, with a library problem and a short project. Majors must take this course, but it is not required by all medical schools. Prerequisite: Course 30. Professor Kroschwitz and assistant. Lec. Th 1:10. Laboratory two afternoons: Tu Th 1:10-5.
36. **Chemical Dynamics.** [3]
An introduction to chemical kinetics, the laws of thermodynamics, and electrochemistry with applications to analytical chemistry and biochemistry. Required of chemistry majors and suitable also for premedical and biological science students. Prerequisites: Course 30, Calculus I and II, and preceding or parallel, Physics 3-4 (now

V1103, V1104). Recommended parallel: Course 38. Professor Segal. Lec. M W F 11; Problem section Tu 12.

38. Intermediate Chemistry Laboratory II. [0]

Quantitative techniques in volumetric analysis, radiochemistry, spectrophotometry, and pH measurement. Biochemical applications are included and some experience with computer programming is provided. Required of chemistry majors and suitable also for premedical and biological science students. Prerequisite: Course V3059x or corequisite: Course 36. Professor Francia. Laboratory one or two afternoons: Tu Th 1:10-5.

V3059x. Introductory Physical Chemistry I. [3]

Thermodynamics, the physical chemistry of solutions, chemical equilibria including acid-base equilibria, electrochemistry. Intended for majors in biochemistry and biology and premedical students. Prerequisites: Organic Chemistry II, Calculus I and II, and Physics 3-4, or the equivalents. Recommended laboratory: Course 38. Professor Bersohn. Lec. M W F 11.

V3060y. Introductory Physical Chemistry II. [3]

Kinetic theory, chemical kinetics, transport properties, surfaces, macromolecules. Prerequisite: Course V3059x or permission of the instructor. Professor Zare. Lec. M W F 11.

61. Physical Chemistry I. [2]

Atomic and molecular structure with an introduction to quantum mechanics. Spectroscopy. Crystals and symmetry with an introduction to the use of group theory. Optional laboratory experience with various types of spectroscopy. Prerequisites: Course 30, Physics 3-4, and Calculus III. Calculus IV is recommended. Professor Mazziotti. Lec. M W F 10. Laboratory W 1-5. Recitation hour to be arranged.

62. Physical Chemistry II. [2]

Kinetic theory of gases. Transport processes. Statistical thermodynamics, entropy and the third law, partition functions, equilibrium. Theories of chemical kinetics and solutions. Prerequisites: Course 30, Physics 3-4, and Calculus III. Courses 36 and 61 and Calculus IV are recommended. Professor Mazziotti. Lec. M W F 10. Recitation hour to be arranged.

68. Advanced Chemistry Laboratory. [0]

Preparation and characterization of inorganic and organic compounds. Construction and characteristics of electronic circuits of instruments. Instrumental methods of analysis. Prerequisite: Course 38. Professor Segal. Lec. one hour to be arranged. Laboratory one or two afternoons: M W 1:10-5.

87, 88. Problems in Chemistry. [0]

Advanced individual laboratory projects for students who have completed the major requirements. Professors Kroschwitz, Mazziotti, and Segal. Eight hours by arrangement.

Graduate Courses

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

Breakage Charges

No charge is made for use of apparatus and materials in the chemistry laboratories. Payment will be expected for breakage in excess of \$10 per course.

<i>Associate Professor</i>	Jeanette Roosevelt (Program Coordinator; 207 Barnard Hall)
<i>Associate</i>	Sandra Genter (Workshop Director; 208 Barnard Hall), Janet Soares
<i>Lecturer</i>	Walter Sorell ¹
<i>Instructors</i>	Hannah Kahn, Linda Lerner

¹ Absent on leave, 1973-74.

Human movement is perhaps the most ordinary aspect of life. Yet it can be the most ecstatic form of human expression, particularly through dance. Dance heightens the awareness of being and disciplines the body. Thus it complements the development of the powers of the intellect.

Through its physical education program, Barnard College offers studio classes in modern dance, ballet, and jazz, as well as in general folk dance.

There is also within the physical education program a body movement workshop, based upon Laban's Effort-Shape Theory, which emphasizes kinesthetic perception and range of movement possibility through the exploration and analysis of space, time, and energy. There are performance opportunities for advanced students. Those interested should confer with Miss Lerner.

In addition, the Barnard Dance Theatre Workshop affords skilled dancers the opportunity to perform in workshop presentations, in concerts and in programs integrated with drama productions and those of other departments in the College. It sponsors symposiums, master classes conducted by guest artists, and other special events. Interested students should confer with Miss Genter.

The Program in the Arts: Students looking toward a career in dance performance or choreography should see the announcement on the Program in the Arts on pages 54-56, and should consult with Professor Roosevelt as soon as possible.

61-62. **Dance Workshop.**

Studio work in advanced dance technique, including problems in movement improvisation and the study of dance style through the performance of phrases from dance repertory. Students read from assigned sources, participate in master classes, and keep a journal which is read periodically by the instructor and discussed in conference with the student. Prerequisite: Permission of the instructor. Miss Genter, assisted by Miss Kahn. M W 4:15-5:30 and Tu Th 3:45-5. Conference hour to be arranged.

63. Form in Dance Composition.

Study of the development of dance form through the manipulation, according to formal composition principles, of rhythm, energy and design in movement. Prerequisite: written permission of the instructor. Mrs. Soares. M 6-8, F 11-1.

64. Content in Dance Composition.

Research in the source materials of dance composition and exploration of their uses in choreography. Sources include gesture, movement texture, rhythmic structure, movement shape, and literary ideas. Emphasis upon unity of style in the work of each student. Prerequisite: Dance 3 or equivalent study elsewhere. Admission with approval of the instructor. Mrs. Soares. M 6-8, F 11-1.

65, 66. History of Dance. (formerly Music V1109x, V1110y)

A survey of the development, history, aesthetics, and philosophy of dance, with particular reference to drama, opera, ballet, and modern dance. Lectures and demonstrations; interviews with specialists in the field and practice in selected dance movements. Prerequisite: Permission of the instructor. Registration limited to 40 students. Professor Roosevelt. Tu 6:10-8:50.

74. Contemporary Dance Forms.

A seminar in which students examine the form, style, and content of the works of selected contemporary choreographers, chosen from both ballet and modern dance. Sources for study include film, video-tape, attendance at rehearsals and concerts, and interviews with artists. In 1973-74, the works of Martha Graham, Merce Cunningham, and Jerome Robbins will be studied. Professor Roosevelt, Mrs. Soares (coordinator), and Miss Genter. Hours to be arranged.

[76. Critical Writing on Dance.

Mr. Sorell. Not given in 1973-74.]

Related Courses

Students interested in dance will find the courses given below pertinent and should consult the departmental listings for course descriptions.

English 33-34. Play Production. Professor Janes.

Music 1-2. An Introduction to Music.
Professors Doris, and Lazarevich, and Mr. Schubert.

Philosophy 34. Concept of Beauty. Professor Mothersill.

Program in the Arts 1-2. Introduction to the Arts.
Professors Ulanov, Doris, Janes, Nyberg,
Roosevelt and Miss Hilton.

<i>Director of the Minor Latham Playhouse</i>	Kenneth Janes (231 Milbank Hall), Associate Professor of English
<i>Assistants to the Director</i>	Luz Castaños, Gordon Micunis, Janet Soares, Robert Williams
<i>Technical Director</i>	Dennis Parichy
<i>Theater Manager</i>	Jane Hayes

The Minor Latham Playhouse is the center of activities for Barnard students interested in the theater. Majoring in various departments, the students bring to the Playhouse their special abilities and the experience of such courses as those listed below. For further information, consult Professor Janes. Students participate in the staged productions, the experimental and classic drama, dance and opera studio projects of The Barnard College Theatre Company. The Gilbert and Sullivan Society and the Spanish, French, German, Russian, and Italian clubs work in close cooperation with the theater program. The Barnard Bulletin's drama column and WKCR (the Columbia radio station) offer other opportunities to develop abilities related to the theater arts. Barnard's location in New York enables students to attend productions on and off Broadway.

The Program in the Arts: Those students contemplating a career in theater should see the announcement on the Program in the Arts, pages 54-56, and should consult with Professor Janes at the earliest possible time.

Among the courses concerned with the theater are these, described in detail in the departmental announcements.

Dance

- 65, 66. **History of Dance.**
Professor Roosevelt.
- [76. **Critical Writing on Dance.**
Mr. Sorell. Not given in 1973-74.]

English

- 13, 14. **Dramatic Writing.** Professor Teichmann.
21. **The Uses of Speech.** Miss Caughran.
- 23, 24. **Oral Interpretation of Literature.** Miss Caughran.
27. **Public Speaking.** Miss Caughran.
28. **Persuasive Speaking.** Professor Norman.
- 30x. **Introduction to the Theater.** Mr. Williams.
- 31, 32. **Contemporary Theater.** Miss Castaños.
- 33, 34. **Play Production.** Professor Janes, Mr. Parichy and Staff.

- 35, 36. **The Actor's and Director's Interpretation of Dramatic Literature.**
Professor Janes.

- [40y. VII. **The Contemporary British Stage.**
Professor Patterson. Not given in 1973-74.]

- 63, 64. **Shakespeare.** Professor Patterson.

- [69. **Renaissance Drama.**
Professor Patterson. Not given in 1973-74.]

- [86. **Drama from Ibsen to the Present.**
Professor Ulanov. Not given in 1973-74.]

French

16. **Advanced Oral French.** Professor Riffaterre.

- [34. **The French Theater of the Seventeenth Century.**
Professor Bailey. Not given in 1973-74.]

- [35. **The French Theater of the Eighteenth and Nineteenth Centuries.**
Not given in 1973-74.]

39. **Twentieth-Century French Theater.**
Professor Geen.

70. **The Comic Tradition.** Professor Shroder.

German

14. **German Literature at the Turn of the 20th Century.**
Professor Bradley.

- [15. **Goethe and Schiller.** Professor Sakrawa. Not given in 1973-74.]

- [25. **Great German Dramatists and Theaters of the 19th Century.**
Professor Sakrawa. Not given in 1973-74.]

26. **Modern German Theater.** Professor Bradley.

46. **German Literature in the Eighteenth Century.** Professor Sakrawa.

Greek and Latin

- Classical **Greek Drama and Its Influences.**
Literature V3123x. Professor Bacon.

- [Greek V3305x. **Tragedy.** Not given in 1973-74.]

- Greek V3307x. **Comedy.** Professor Benedict.

- Latin V3309x. **Selections from Latin Literature, I.** Professor Ludwig.

Italian

- [V3642y. **A Study of Contemporary Arts: The Italian Film.**
Professor Lorch. Not given in 1973-74.]

Music

- V1005x. **The Opera.** Professor Beeson.

Russian

- V1223x. **Modern Slavic Drama in Translation.** Professor Segel.

- [V1229x. **Russian Drama and Theater.** Not given in 1973-74.]

Spanish

- [22. **The Spanish Drama.** Professor Ucelay. Not given in 1973-74.]

<i>Professors</i>	Marion Hamilton Gillim (Chairman; 411 Lehman Hall)
<i>Associate Professors</i>	Jean Gooch, Deborah D. Milenkovitch ¹
<i>Assistant Professor</i>	Cynthia B. Lloyd
<i>Instructor</i>	To be announced

Other officers of the University offering courses listed below:

<i>Professors</i>	Harold Barger, Philip D. Cagan, Donald J. Dewey, C. Lowell Harriss, Seymour Melman, Edmund S. Phelps, Aaron W. Warner
<i>Associate Professor</i>	James I. Nakamura
<i>Assistant Professor</i>	Guillermo Calvo
<i>Lecturer</i>	Norman Mintz
<i>Preceptor</i>	Joel Koblentz

¹ Absent on leave, 1973-74.

As a major in economics, a student may arrange a program, with the help of her departmental adviser, to suit her individual needs and interests. For those planning graduate study in economics, special attention to economic analysis and statistics is recommended. Suitable programs can be arranged for students desiring to enter other professional schools or planning to go directly into careers in business, research, government or teaching. An appropriate sequence of courses can be planned, also, for the student whose interest is primarily in economics as a basis for informed citizenship.

A student majoring in economics will be required to take Courses 1 and 2; 27 or 28. Courses 7, 8 and both 17 and 18 are strongly recommended.

Other social sciences: In view of the essential unity of the social sciences, a major is required to take, in addition to a minimum of 8 courses in economics from the Department's listed offerings, one course in each of two of the following departments, selected in conference with her adviser: anthropology, geography, government, history, philosophy, psychology, religion, sociology.

Each senior major is required to prepare a research paper, which may be done in connection with one or two semesters of the senior seminar, 51, 52, or in 61, 62 over a full year. No major examination is required.

§1x or 1y. Introductory Economics.

A study of basic economic concepts with emphasis on the analysis of the aggregate economy. Subjects covered include national income and its determination, business and labor organizations, business cycles, government finance and monetary economics. Professors Gooch and Lloyd and instructor to be announced. 1x: Section I M W F 10. [2] Section II M W F 11. [3] Section III Tu Th 9:10-10:25. [6] 1y: Section IV. Tu Th 10:35-11:50. [7]

§2x or 2y. Introductory Economics.

Subjects covered include the determination of price and income distribution through supply and demand; monopoly and antitrust policy; international economics; problems of developing nations; and alternative economic systems. Economics 1 is not a prerequisite for Economics 2. Professors Gooch and Lloyd, and instructor to be announced. 2x: Section IV Tu Th 10:35-11:50 [7]. 2y: Section I M W F 10 [2]. Section II M W F 11 [3]. Section III Tu Th 9:10-10:25 [6].

[3. Introduction to Economic Analysis.

Professor Milenkovitch. Not given in 1973-74.]

§7. United States Economic History. [9]

The causes of economic growth in the United States between the Colonial period and the Civil War. In illustrating the changing relations among the factors of production — land, labor, capital and entrepreneurship — emphasis will be placed on advances in technology, movements of capital and the contributions of all ethnic groups to the development process. Professor Gooch. Th 1:10-3:25.

§8. United States Economic History. [9]

The development of the American economy from the Civil War to the present time. Changes in the structure of market demand, in costs and in technology will be examined for their effect on industrial, financial and social institutions. The adequacy of the enterprise system, together with government, to solve the economic and social problems of earlier decades in contrast to those of the nineteen-seventies will be examined critically. Professor Gooch. Th 1:10-3:25.

§10. Sex Discrimination and the Division of Labor. [9]

Topics to be discussed include the extent of women's education; labor force participation by women; economic factors affecting marriage, divorce and fertility; economic discrimination against women; effect of government policy on women's position; and international and historical comparisons. Prerequisite: Course 2 or permission of the instructor. Professor Lloyd. Tu 2:10-4.

[12x. The Economics of Worker-Management.

Professor Milenkovitch. Not given in 1973-74.]

§16. Government Finance and Fiscal Policy. [9]

Principles of government expenditure and taxation, and the American systems of spending and taxing. Government debt; government finance in relation to the distribution of national income and wealth and to economic growth and stability; and the financial problems of state and city governments. Prerequisite: Courses 1 and 2 or permission of the instructor. Professor Gillim. Tu 3:10-5.

17, 18. Introductory Statistics. [1]

Autumn Term: The gathering, processing, presentation and analysis of statistical data; linear correlation; and an introduction to statistical inference. Spring Term: Index numbers; time series; multiple correlation; and other techniques used in the social sciences. Prerequisite: Economics 17. Professor Gillim. Lec. M W 9. Lab (2 hours) M 2:10-4 or Tu 2:10-4 or 4:10-6.

- §19. Labor Economics.** [12]
Factors affecting the allocation and remuneration of labor. Topics include population structure; unionization and monopoly; education and manpower training; mobility and information; sex and race discrimination; unemployment; and public policy. Prerequisite: Economics 2 or equivalent. Professor Lloyd. M W 12-1:15.
- 20. International Economics.** [2]
Theory and history of international trade and investment; foreign exchange markets, balance of payments, policies to adjust the balance of payments, role of the International Monetary Fund, evaluation of alternative policies. Prerequisite: Economics 1 and 2. Instructor to be announced. M W F 10.
- §22. The Economics of Population.** [3]
Economic determinants and consequences of population structure and change in developed and underdeveloped countries. Topics include population theories; sources and uses of demographic statistics; fertility, mortality and migration; population distribution; family planning; population policy. Prerequisite: Economics 1 and 2 or equivalent. Professor Lloyd. M W 11-12:15.
- §25, 26. Contemporary Economic Issues.** [5]
A survey of the leading economic issues in present-day American life, including international as well as domestic questions. Lectures and discussion. Open to all except freshmen. Either term may be taken separately. Instructor to be announced. M W 2:10-3:25.
- 27. Intermediate Macroeconomics.** [7]
Keynesian and neo-Keynesian analyses of the aggregate economy. Prerequisite: Economics 1 and 2. Professor Gooch. Tu Th 10:35-11:50.
- 28. Intermediate Microeconomics.** [7]
Theory of consumer demand, the pricing of goods and services in perfect and imperfect competition, the pricing of the factors of production, and a brief history of these ideas. Prerequisite: Economics 1 and 2. Professor Gooch. Tu Th 10:35-11:50.
- [§29. The Economics of Underdeveloped Areas.**
Professor Milenkovitch. Not given 1973-74.]
- [§30. Comparative Economic Systems.**
Professor Milenkovitch. Not given 1973-74.]
- [33. Economic Planning.**
Professor Milenkovitch. Not given 1973-74.]
- 51, 52. Economics Seminar.** [0]
Reading, reports, and discussion centering around the preparation of an essay required of senior majors. Professor Gillim. W 3:30-5:30.
- 61, 62. Studies in Economics.** [0]
Additional credits may be obtained in this course for independent work done in connection with some other course in economics. Special reports, a term paper, or the completion of supervised field work is required. The essay required of senior majors may be written in 61, 62 rather than in 51, 52. The course may be repeated. Members of the Department.

- W1413y. Introduction to Quantitative Economics.**
The development of fundamental mathematical concepts and techniques applicable to economics and business. An introduction to differential calculus and elementary linear algebra, with an emphasis on their use in micro and macro-economic theory. Professor Calvo. M W 4:10-5:25.
- W3228x. The Urban Economy.**
Past and present economic functions of cities. Growth of metropolitan areas. Location theory; theories of site rent and urban form; analysis of the urban economic base. Impact of changing technology and social structure on central cities and suburbs. Problems of older central cities, including transportation, public finance, housing, and urban renewal. Effects of federal policy. The future of the city. Prerequisite: Economics 3 or the equivalent. Mr. Koblentz. M W 1:10-2:25.
- W3241y. Economic Justice: Rival Conceptions and Their Policy Requirements.**
A survey of the major conceptions of distributive justice, or social welfare, from utilitarianism and present-day neo-utilitarianism to Rawls' *A Theory of Justice*; an examination of the implications for income taxation, government expenditure, and other public policies for realizing justice. Professor Phelps. M 2:10-4.
- W3321x. Economic Development.**
The economics of underdevelopment: theories of economic growth; capital accumulation, labor flows, and technological change; roles of agricultural sector, government, and foreign trade and aid. Prerequisite: Economics 1 and 2. Professor Nakamura. M W F 11.
- W3412y. Econometrics.**
Modern econometric methods: the general linear statistical model and its extensions; simultaneous equations methods and the identification problem; time series problems; forecasting methods. Prerequisite: Economics 1 and 2 and a semester of statistics. A background in introductory calculus and/or linear algebra is recommended. Professor Taylor. M W 2:40-3:55.
- W3414x. Introduction to Mathematical Economics.**
The application of mathematical techniques to economic analysis. The theory of the firm and competition; theory of demand; static macro-economic models. Mathematical tools are developed as needed. Prerequisite: Economics 1 and 2 and permission of the instructor. Some knowledge of calculus is recommended. Professor Calvo. M W 4:10-5:25.
- W3711x or y. Monetary Economics and Policy.**
The nature of money and the United States monetary system. Monetary theory; monetary policy and how it affects the economy; current problems in the control of inflation. Prerequisite: Economics 1 and 2 or the equivalent. W3711x. Professor Cagan. Tu Th 11-12:15. W3711y. Professor Barger. M W 7:40-8:55 p.m.
- W3861x. Taxation and Government Expenditures.**
Theory and practice of government spending: principles of taxation, including distribution of burden and constitutional aspects; individual and corporation income, property, commodity and general sales, death and payroll taxation; shifting and incidence; adminis-

tration. Prerequisite: Economics 1 and 2. Not open to students who have taken Economics 16. Professor Harriss. Tu Th 1:10-2:25.

W3862y. Government Budgeting, Public Debt, Intergovernmental Financial Relations, and Fiscal Policy.

Budgeting and problems of efficiency in government spending; inter-governmental financial relations; selected aspects of international comparative fiscal systems; borrowing and debt management; fiscal policy for economic stabilization and growth. Prerequisite: Economics 1 and 2. Not open to students who have taken Economics 16. Professor Harriss. Tu Th 1:10-2:25.

W3904x. International Economics.

The theory of international trade: comparative advantage and the factor-endowments explanations of trade; analysis of the theory and practice of commercial policy; economic integration. The balance of payments; adjustment in response to disequilibria; the foreign exchange market; alternative monetary systems. Proposals for reform of the international monetary system. Prerequisite: Economics 1 and 2. Professor Mintz. Tu Th 2:40-3:55.

W4453x. Industrial Relations.

Contemporary developments and trends in industrial relations in industrialized countries; role of trade unionism; theory and practice of collective bargaining; impact of technology and structural economic change. Regulation of industrial conflicts; problems of joint consultation and joint management arrangements; industrial relations in regulated and public enterprises. Relevance of industrial relations to national economic planning. Consent of Barnard department and major adviser required. Professor Warner. F 4:10-6.

W4251x. Industrial Organization and Control.

The structure and performance of the American economy, with particular attention to the technical forces, historical accidents, and public policies which have shaped them. The problem of measuring concentration and productivity performance. Antitrust regulation in the light of modern economic analysis and empirical work. Prerequisite or corequisite: Economics 28. Professor Dewey. M W 1:10.

W4521x. The Postwar Economy of Western Europe.

Economic growth in developed countries; capital and labor supply and industrial location; inflation, stabilization and the balance of payments; integration and the Common Market; centralized planning in Britain, France, and elsewhere; Europe in world trade and payments; East-West trade; Europe and the underdeveloped world. Professor Barger. M 4:10-6.

W3257x. The War Economy.

The microeconomics and macroeconomics of military industry and its government management. Consequences for civilian industry and economy. Conditions of conversion from military to civilian economy. Prerequisite: Economics 1 or the equivalent. Professor Melman. M W 2:10-3.

The following program is supervised by the Committee on Education:

<i>President, ex officio</i>	Martha Peterson
<i>Professor of Education Frederick A. P. Barnard Professor of Education, Teachers College, Columbia University</i>	Patricia Albjerg Graham (Chairman; 336B Milbank Hall)
<i>Professor of English</i>	Lawrence A. Cremin
<i>Professor of History</i>	Barry Ulanov
<i>Professor of Philosophy</i>	Annette K. Baxter
<i>Professor of Political Science</i>	Joseph G. Brennan
<i>Associate Professor of French</i>	Demetrios Caraley
<i>Assistant Professor of Education and Psychology</i>	Renée Geen
<i>Assistant Professor of Psychology</i>	Susan Riemer Sacks (336A Milbank Hall)
<i>Associates in Education</i>	Edward S. Cobb
	Frank Moretti, Katherine Wilcox

The Education Program does not constitute a major; it is taken in conjunction with a major in some other subject.

The program is open to qualified Barnard students who wish to teach in elementary or secondary schools. For a New York State Provisional License, valid for five years, a student wishing to teach at the *secondary* level (grades 7-12) must complete: one Psychology course (Psychology 5, 27, 34x); either History 65, Philosophy 84, or Sociology 39; and one methods course in the student's specific subject area. A student preparing for *elementary* education (grades k-6) must complete: three courses, one in psychology and two others, (Psychology 5, 27, 34x, History 65, Philosophy 84, Sociology 39), and Education 2 in the spring semester of the junior year.

All students in the Education Program student teach *one semester* during their senior year (Education 3 in the fall semester; Education 3y in the spring). During the student teaching semester only, the students must attend the teaching seminar (Education 4x in the fall; Education 4 in the spring) which focuses on the principles and practices of classroom teaching. During their student teaching semester, no more than two other courses should be taken.

A permanent license requires a master's degree, which need not include any additional work in education.

Before the end of the sophomore year, students interested in teaching should confer with the Education Program staff. Juniors who wish to apply for admission to the program should file applications, obtainable in the Education Program office, at the beginning of the Autumn Term. Decisions for admission to the Program are announced on the first day of the Spring Term of the Junior year.

Education 2. Problems in Teaching Reading and Arithmetic. [0]

Children's problems in learning to read and to do arithmetic are examined through direct contact with children and through study of the literature. Students will work in the schools and tutor children with difficulties and will assess their work in a weekly seminar. This course is a prerequisite to student teaching in the elementary grades. Limited to students admitted to the Education Program. Seminar. Professor Sacks. Tu 2:10-4.

Education 3, 3y, 4x, 4. Introduction to Teaching in the Elementary and Secondary Schools. [0]

This course involves observation and student teaching in elementary and secondary schools. The accompanying seminar examines contemporary issues in American education. Individual conferences assess pedagogical problems encountered in student teaching. Student teaching is done during one term four or five half-days a week, generally in the morning. The term in which student teaching is done the course will be designated Education 3, 4 and will be considered equivalent to two courses. Prerequisite: admission to Education Program. Seminar. Professors Graham and Sacks and staff. Autumn Term: W 2:10-4; Spring Term: M 2:10-4.

History 65. History of Education in the United States. [5]

The development of American education in the context of social and intellectual history. Professor Graham. M 2:10-4.

Philosophy 84. Philosophy of Education. [4]

Philosophical presuppositions of intellectual and moral education. Examination of topics such as innate ideas; natural moral characteristics; permissiveness; "free" schooling; "deschooling"; material and moral incentives. Readings will include selections from Plato, Rousseau, Piaget, Dewey, Chomsky, Illyich, Neil, and current periodical literature. Professor Nell. M W F 1:10.

- Sociology 39. Sociology of Education** [9]
The social organization of education in the United States, with emphasis upon primary and secondary schools. Topics include: The school as a complex organization; the classroom as a learning environment; social factors in academic aspirations and achievement; selected innovations in educational practices; and problems in the relations between the school and the community. Professor Lehman. Tu Th 2:10-3:25.
- English 98. V. The Teaching of English.** [0]
Primarily for students in the Education Program. Miss Caughran. W 3:10-5.
- History 63. Problems in the Teaching of History.** [17]
The selection and organization of content for junior and senior high school history courses; use of primary sources, secondary readings, and other relevant materials; problems of evaluation. Primarily for students in the Education Program; others by written permission of the instructor. Sister Mary Elizabeth. M 4:10-6.



<i>Professors</i>	John A. Kouwenhoven, David A. Robertson, Jr., Eleanor Rosenberg, ¹ Eleanor M. Tilton, Barry Ulanov
<i>Adjunct Professor</i>	Howard M. Teichmann
<i>Associate Professors</i>	Kenneth H. Janes (Director of Minor Latham Playhouse), Ruth M. Kivette, ² Joann Ryan Morse (Departmental Representative; 401B Barnard Hall), Richard A. Norman (Chairman; 402 Barnard Hall), Remington P. Patterson
<i>Adjunct Associate Professors</i>	Joy Chute, Elizabeth Hardwick
<i>Assistant Professors</i>	Lois A. Ebin, ² Maire J. Kurrik, Anne Lake Prescott, Catharine R. Stimpson, Janice Farrar Thaddeus
<i>Associates</i>	Elizabeth Caughran, Elizabeth Dalton, Marjorie Housepian Dobkin, R. Christine Royer (Director of English A; 401D Barnard Hall), Quandra Stadler
<i>Instructors</i>	Constance Colby, Naomi Lipman, Ruth M. Mathewson
<i>Assistants</i>	Margaret D. Hance

¹ Emeritus.

² Absent on leave, Spring Term.

A student majoring in English will study the works of the principal poets, novelists, essayists, and playwrights of England and America in their contemporary contexts. She will acquire a knowledge of the history of literature, develop her ability to understand and evaluate texts, and improve her own writing and speaking.

In consultation with her departmental adviser, a major in English will plan her program to include course 93 in her sophomore or junior year, course 59-60 in her junior year, and courses 97, 98 in her senior year. In addition she will elect five courses (normally from courses 53-90) so distributed as to acquaint her with a variety of texts of different genres and different periods. A student may choose in place of no more than two of these five courses, courses in writing, speech, or theater. Majors with a special interest in writing, speech, or theater should study the departmental offerings under those headings.

Program in the Arts: Those students interested in this Program should see the announcement on pages 54-56, and should consult with Professor Ulanov or Professor Janes as soon as possible.

Introductory

- A. Freshman Studies in English.** [0]
 An approach to literary skills through intensive reading, regular assignments in composition, and discussion; frequent individual conferences with the instructor. Prescribed for all freshmen. Miss Royer and Members of the Department. Sections of Course A meet at the following hours: M W F 9, 10, 11, 12:10, 1:10, 2:10. Tu Th 9:10-10:25, 10:35-11:50, 2:10-3:25, 3:35-4:50.
- 2x, 2. Special Seminar in Reading and Writing.** [0]
 Permission of the instructor required. Frequent conferences.
 I. For students who want additional work in writing.
 Mrs. Mathewson. W 2:10-3.
 II. For students whose first language is not English. Autumn Term: Mrs. Colby. M W 2:10-3.
- 40x, 40y. Seminars on Special Themes.** [0]
 Open to a limited number of freshmen and sophomores, and to juniors and seniors if numbers permit. Permission of the instructor required.
- 40x. (Autumn Term)**
I. Psychoanalytic Approaches to Literature.
 Study of literary expression in the light of psychoanalytic thought; reading in Freud and other psychoanalytic writers, Shakespeare, James, Kafka, Lawrence and others. Miss Dalton. Tu Th 10:35-11:50.
[§II. Arthurian Legend.
 Professor Prescott. Not given in 1973-74.]
§III. The City in Literature.
 The effect of the growth of cities on the literary imagination. Readings in Stephen Crane, Theodore Dreiser, New York poets, and others. Professor Stimpson. Tu Th 2:10-3:25.
- 40y. (Spring Term)**
[§IV. Yeats and Joyce.
 Not given in 1973-74.]
§V. Sexuality in Literature.
 Sexual roles and the place of woman as represented in the Bible and in works by Shakespeare, Jane Austen, D. H. Lawrence, Doris Lessing, and others. Professor Stimpson. M W F 10.
§VI. Explorations of Black Literature.
 A study of black expression in America: slave narratives, folklore, and song; works by Chesnutt, Du Bois, and others. Mrs. Stadler. Tu Th 10:35-11:50.
[§VII. The Contemporary British Stage.
 Professor Patterson. Not given in 1973-74.]
- §41, 42. Major English Texts. (formerly 51, 52)** [4]
 A general view of the scope and variety of English literature and its place in world literature through study of selected writers and their works. Autumn Term: Chaucer through Milton. Spring Term: Dryden to the beginning of the twentieth century. Professors Patterson and Stimpson. M W F 1:10.

Writing Registration in each course is limited, and the written permission of the instructor is required; signed departmental registration blanks are to be filed with Professor Morse (401B Barnard Hall). Two writing courses may not be taken concurrently. Majors with a special interest in writing who have had two writing courses may substitute a third writing course for either course 97 or course 98 in their senior year.

3, 4. Structure and Style. [0]

English composition above the first-year level. Frequent individual conferences. Students may take either term or both.

I. Fiction and personal narrative. Miss Dalton. M 2:10-4.

II. Essays. Autumn Term: Miss Royer. W 3:10-5. Spring Term: Professor Kouwenhoven. Tu Th 9-9:50.

III. Poetry. Spring Term: Professor Thaddeus. Tu 2:10-4.

6. Advanced Composition. [0]

The members of the class will keep daily journals and work up the material in finished papers, fiction and nonfiction. Mrs. Dobkin. Th 3:35-5:25.

7, 8. Experiments in Writing. [0]

Advanced work in various forms. Individual conferences with the instructor. Professor Hardwick. Th 2:10-4.

11, 12. Story Writing. [0]

Advanced work in writing, with emphasis on the short story. Individual conferences with the instructor. Some experience in the writing of fiction is prerequisite to this course. Professor Chute. Tu 4:30-5:25.

13, 14. Dramatic Writing. [0]

The development of a dramatic situation in terms of short fiction, the theater, television, motion pictures, and radio. Completed works are discussed, given dramatic readings by the class, and recorded on tape. Professor Teichmann. Tu Th 2:10-3:25.

Speech To elect any course in speech a student must secure the written permission of Professor Norman or Miss Caughran. Majors with a special interest in speech who have had two speech courses may substitute a third speech course for either course 97 or course 98 in their senior year. Their work should include course 21 and courses in public speaking and oral interpretation.

21 or 21y. The Uses of Speech. [0]

Training in voice production and clear articulation. Designed to improve the student's speech through drill, practice in reading aloud, the presentation of oral reports, and extemporaneous speaking. Use of the language laboratory. Registration limited to 15 students. Professor Norman and Miss Caughran. M W F 11.

22. American and British Dialects. [0]

Study of the geographic, class, and vocational dialects of English.

Practice in speaking and in reading aloud. Miss Caughran.
M W F 1:10.

23, 24. Oral Interpretation of Literature. [0]

Study of literary texts for oral performance. Fictive prose and poetry, with class projects exploring reading modes from informal presentation to reader's theater. Miss Caughran. M W F 10.

27. Public Speaking. [0]

Study of the basic principles of informal and formal speaking with emphasis on the selection and organization of materials, on audience psychology, and on effectiveness of delivery. Professor Norman. Tu Th 10:35-11:50.

28. Persuasive Speaking. [0]

Theory and practice of persuasive speaking: the use of evidence and opinion, logic, and audience motivation in the presentation of controversial views and current issues. Professor Norman. Tu Th 10:35-11:50.

Theater To elect any course in theater (except course 30x) a student must secure the written permission of the instructor. Majors with a special interest in theater should consult with a faculty member of the theater staff concerning courses in theater. Majors who have had at least one course in speech and two in theater may substitute a course in theater for either course 97 or course 98.

30x. Introduction to the Theater. [0]

A survey of historic and modern theater with emphasis upon the origins of theater, the nature of the dramatic act, and the place of theater in society. Special attention is paid to the interrelation of dramatic literature, styles of production, and the organization of theater. Individual and group projects in related research. Class attendance at professional theater productions. Mr. Williams. M 4:10-5:30.

31, 32. The Contemporary Theater. [0]

A study of the major developments in the contemporary theater, especially the nature and treatment of the text, the actor's art, and the function of the director. The course will include acting and directing projects by class members. Permission of the instructor required. Miss Castaños. M 2:10-4. Lab. hours to be arranged.

33, 34. Play Production. [0]

A study of the technical aspects of the theater and the ways in which they complement the work of the playwright, director, choreographer, and actor. Guest lecturers in specialized areas from the professional theater. Permission of the instructor required. Professor Janes, Mr. Parichy and Theater Staff. Tu Th 3:35-5:25.

35, 36. Actor's and Director's Interpretation of Dramatic Literature. [0]

The practical study of Renaissance and Restoration dramatic literature for actors and directors. Permission of instructor required. Professor Janes. F 2:10-4. Lab. hours to be arranged.

- Language and Literature** For nonmajors, courses marked § will count toward the general college requirement.
- [53. **Anglo-Saxon Language and Literature.** Not given in 1973-74.]
- §55. **Chaucer.** [7]
Chaucer's *Canterbury Tales*. Professor Ebin. Tu Th 10:35-11:50.
- [§56. **Chaucer and his Contemporaries.** Not given in 1973-74.]
58. **Medieval Literature.** [9]
English and Continental literary works from the fourth to the fifteenth century, studied in the original or in translation. Professor Ulanov. Tu Th 2:10-3:25.
- 59-60. **The English Colloquium.**
The major writers, major works, and major genres of the literature from the late fifteenth century to the late eighteenth century, examined in terms of the leading ideas of the period. Required of junior majors; election by non-majors if numbers permit. Meetings of all four sections will be arranged from time to time for lectures on special topics related to the course.
- I. Reason and Passion.** [4]
Reason, folly, and wisdom; indulgence, abstinence, and temperance; reason, imagination, and revelation; rationality and irrationality. Autumn Term: Professors Kivette and Thaddeus. Spring Term: Professors Patterson and Thaddeus. W 1:10-3.
- II. Imitation and Creation.** [10]
New ideas of the mind's relation to the worlds it perceives and the consequences for art. New perspectives, the emergence of new forms, experimentation with old forms, and the search for an appropriate style. The change from public performance to private reading. Autumn Term: Professors Ebin and Morse. Spring Term: Professor Morse and Miss Royer. W 3:10-5.
- III. Ideas of Order and Disorder.** [13]
Form and structure achieved or defeated in the work of art and in the world. The rise of the man of letters and vernacular literature. The drama of self-definition. The development of modern notions of subjectivity, self-confidence, and revolutionary change. Professors Ulanov and Kurrik. Th 3:35-5:25.
- [59y. **IV. The Traditions of Love**
Not given in 1973-74.]
- §63, 64. **Shakespeare.** [3]
A critical and historical introduction to Shakespeare. About fifteen plays—comedies, histories, and tragedies—will be read, with emphasis on the major plays. Professor Patterson. M W F 11.
- §65. **Spenser and the Tudor Renaissance.** [4]
Humanism, the Reformation, the New World; courtly poetry and popular prose from Skelton and More through Sidney and Nashe, with special attention to Edmund Spenser. Professor Prescott. M W F 1:10.

- §66. **Seventeenth-Century Literature.** [4]
 Classicism and mannerism in poetry from Jonson and Donne to Marvell; plain and ornamented prose in Bacon, Burton, Browne, Milton, and others. Professor Rosenberg. M W F 1:10.
- §67. **Milton.** [2]
 A close reading and critical analysis of Milton's poetry with particular attention to *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*. Professor Kivette. M W F 10.
- [§69. **Renaissance Drama.**
 Professor Patterson. Not given in 1973-74.]
- §71. **The Novel.** [12]
 The central English tradition, including works by Defoe, Richardson, Fielding, Austen, Bronte, George Eliot, Meredith, Hardy, and Dickens. Professor Kurrik. M W F 12:10.
- [§73. **Literature of the Restoration and Early Eighteenth Century.**
 Not given in 1973-74.]
- §74. **Later Eighteenth-Century Literature.** [2]
 Literature in the setting of eighteenth-century England with emphasis on comedy and satire; the development of the novel. Professor Thaddeus. M W F 10.
- §76. **Prose and Poetry of the English Romantics.** [6]
 The thought and style of Blake, Wordsworth, Coleridge, Hazlitt, Lamb, De Quincey, Byron, Keats, and Shelley. Professor Tilton. Tu Th 9:10-10:25.
- §77. **The Victorian Age in Literature.** [7]
 Prose and verse concerning problems of society and of religion: Carlyle, Disraeli, Macaulay, Mill, Newman, Huxley, Tennyson, Browning, Arnold. Professor Robertson. Tu Th 10:35-11:50.
- §78. **Victorian Poetry and Criticism.** [7]
 Poems by Tennyson, Browning, Arnold, Rossetti, Meredith, Morris, and Swinburne. Essays by Ruskin, Arnold, Meredith, Pater, and Wilde. Professor Robertson. Tu Th 10:35-11:50.
- §79. **American Literature, 1630-1865.** [6]
 The Puritan background, the Revolutionary period, and the major American Romantics: Hawthorne, Poe, Melville, Emerson and the Transcendentalists, Whitman. Professor Tilton. Tu Th 9:10-10:50.
- §80. **American Literature, 1865-1950.** [9]
 The experimenters in prose and poetry from James to 1950. Miss Royer. Tu Th 2:10-3:25.
- §82. **Seminar in American Literature.** [0]
 Melville, Whitman, and a twentieth-century writer to be chosen by the student in consultation with the instructor. Prerequisite: English 79 or 80 or permission of the instructor. Professor Kouwenhoven. W 9-10:50.
83. **Modern Literature and the Allied Arts.** [9]
 The focus and the vocabulary of the modern artist, examined and defined first in terms of literature, and then through a comparison with painting, music, the dance, the theater, and the motion picture. Professor Ulanov. Tu Th 2:10-3:25.

84. (Art History 84). **The Vernacular in the American Arts of Design.** [10]
The conflict between the "cultivated" and "vernacular" styles. The development of an American aesthetic in technology, architecture, fine arts, literature, and other arts. Professor Kouwenhoven. W 3:10-5:25.
- [§85. **Modern British and American Poetry.**
Professor Ulanov. Not given in 1973-74.]
- [86. **Drama from Ibsen to the Present.**
Professor Ulanov. Not given in 1973-74.]
- [87. **Major American Writers and Their Foreign Sources.**
Professor Tilton. Not given in 1973-74.]
- §88. **The Modern Novel.** [5]
Works by James, Conrad, Lawrence, Joyce, and Forster. Professor Morse. M W F 2:10.
- §89. **British and American Literature since the Second World War.** [3]
A study of English and American writers since 1945 concentrating on works by writers who challenge political conventions and literary traditions. Reading to include Beckett, Burroughs, Doris Lessing, Mailer, Nabokov and Gwendolyn Brooks, and some reference to popular culture. Professor Stimpson. M W F 11.
90. **The English Language: History and Use.** [2]
An introduction to the history of words, pronunciation, and structure in the light of literary tradition and linguistic science. Professor Norman. M W F 10.
- 93 (or 93y). **Literary Criticism: Analysis and Evaluation.** [0]
The purpose of the course is to provide experience in the reading of literary texts and some knowledge of conspicuous works of literary criticism. Frequent short papers. Registration in each section is limited. Students must file departmental registration forms with Professor Kurrik (422 Barnard Hall) before completing their programs.

All English majors are required to take Course 93 (or 93y) before the end of the junior year. Sophomores are encouraged to take it in the Spring Term before they officially declare their major. Transfer students should plan to take 93 in the Autumn Term.

Professors Robertson, Patterson, Tilton, Morse, Prescott, Kivette, Kurrik, and Miss Royer. Section I M 2:10-4. Section II Tu 3:35-5:25. Section III W 3:10-5. Section IV Th 3:35-5:25.
96. **Independent Work.** [0]
Students who wish to prepare a senior essay on an individual basis instead of taking Course 98 should consult Professor Tilton (419 Barnard Hall) before registering. Professors Tilton and Robertson. Hours to be arranged.
- 97, 98. **Studies in Literature.** [0]
Open to majors and nonmajors. These seminars provide opportunities for intensive study of subject matter to which students have already been introduced in other courses. Registration in each

section is limited, and the written permission of the instructor is required. Departmental registration forms must be filed with Professor Tilton (419 Barnard Hall).

All English majors who elect advanced work in literature, rather than in writing, speech, or theater, are required in the senior year to take one section of 97 and one of 98. Other students will be admitted to the seminars if the section lists have not been filled.

97. (Autumn Term)

I. The Middle Ages.

Quest and vision: a study of the artistic uses of the romance and the dream vision as vehicles for exploring man's inner and outer worlds with particular attention to works by Chaucer, the *Gawain* Poet, William Langland, Gower, and Dunbar. Professor Ebin. Tu 3:35-5:25.

II. The Renaissance.

Images of human nature in English Renaissance literature: the courtier, the man of learning, the lover, the Christian. Focus on More, Spenser, Shakespeare, Donne, Milton. Professor Prescott. W 3:10-4:50.

III. The Eighteenth Century.

Progress and the satiric response in works by Swift, Fielding, Johnson, Smart, and Blake. Professor Thaddeus. Th 2:10-4.

IV. Romanticism.

The study of a major work by each of four poets: Blake, Wordsworth, Byron, and Shelley. Professor Tilton. W 3:10-5.

V. American Literature (1880-1950).

The rite of initiation in works by Mark Twain, James, Crane, Fitzgerald, Ellison, McCullers, Bellow, and a number of poets. Miss Royer. M 2:10-4.

98. (Spring Term)

I. The Death of the Hero: Studies in Tragedy.

Greek, Elizabethan, classical French, and modern works, read in conjunction with significant theories of tragedy: Aristotle, Nietzsche, Frazer, Freud, and Artaud. Miss Dalton. Tu 3:35-5:25.

II. Studies in the Novel: Subjectivity and Authority.

An examination of the novel with emphasis on problems of subjectivity, fictional authority, and genre theory: its reputation among writers and critics in the past and its position in the critical pluralism of the present. Professor Kurrik. M 2:10-4.

III. The Romantic Survival.

Modern writers' use of romantic symbolism and theories of art; the problem of the long work and the problem of belief. Professor Morse. Th 3:35-5:25.

IV. Film and Word.

The influence of literature on films, films on literature; the use of the script; some study of the grammar of the film. Professor Stimpson. W 3:10-5.

V. The Teaching of English.

The place of English in the curriculum and the role of the English teacher; grammar, composition, literature, testing, and grading. Primarily for students in the Education Program. Miss Caughran. W 3:10-5.



<i>Professors</i>	Helen Phelps Bailey, LeRoy C. Breunig, Maurice Z. Shroder (Chairman; 316 Milbank Hall)
<i>Associate Professors</i>	Serge Gavronsky, Renée Geen, Tatiana Greene ¹
<i>Assistant Professors</i>	Danielle Haase-Dubosc, ² Hermine Riffaterre, Domna Stanton ³
<i>Lecturer</i>	Patricia Terry
<i>Instructors</i>	Jane Grace, Lang Hoan Pham, Lynda Snead

¹ Absent on leave, Spring Term.

² Director of Studies, Reid Hall.

³ Absent on leave, Autumn Term.

Courses in the French department have a twofold objective: to perfect fluency in the written and the spoken language; and to develop an understanding and appreciation of the literature and culture of France.

New students who have already given evidence of advanced training in French may automatically be exempted from the language requirement. All other new students who intend to satisfy their requirement in French will, depending upon their preparation, be placed immediately in the appropriate language course or be asked to take a placement test, offered at the start of each semester. Those receiving a sufficiently high grade will fulfill the requirement. The others may do so by completing French 4.

Students who have satisfied the language requirement can take literature courses conducted entirely in French (Course 20x, 20, 21, 22, 23-24, 25-26); courses in which the readings are in French, but with lectures, discussions, and papers in English (47, 48); and advanced language Course 6.

The student majoring in French will plan her program to include the following: Courses 21 and 22, or 23-24, or 25-26; two of the language courses 11, 12, 13, 14, 16; five one-term literature courses numbered 31-44; a one-term seminar numbered 51 or 52. Students with honor grades may elect Course 59-60, senior thesis.

The program may include additional courses in French literature or in other subjects which vary with the interest of the student. Majors who plan to do graduate work are encouraged to acquire a reading knowledge of Latin or German.

There are two departmental examinations: the Junior French Test (a short-answer examination on literary history, literary terminology, and translation) and the Major Examination (a critical essay on a prepared question and an individual oral *explication de texte*).

Language Courses All courses are conducted in French.

- 1-2. Elementary Full-Year Course. [14]**
Grammar, reading, composition. Work in the language laboratory is required. Mrs. Grace (course chairman) and Mrs. Daly. Section I M Tu W Th F 9. Section II M Tu W Th F 10.
- 2x. Review of Elementary French. [14]**
Oral and written review of basic grammar and syntax. Reading in modern literature, oral practice, free composition, translation. Work in the language laboratory is part of the course. Primarily for students who need further instruction to qualify for the intermediate course. Professor Greene (course chairman) and Members of the Department. Section I M W F 10. Section II M W F 11. Section III M W F 1:10. Section IV Tu Th 10:35-11:50.
- 3. Intermediate Course. [14]**
Grammar and syntax. Reading in modern literature, oral practice, free composition, translation. Work in the language laboratory is part of the course. Prerequisite: Course 1-2, Course 2x, or an appropriate score on the placement test. Professor Bailey (course chairman) and Members of the Department. Section I M W F 9. Section II M W F 10. Section III M W F 11. Section IV M W F 12:10. Section V Tu Th 9:10-10:25. Section VI Tu Th 10:35-11:50.
- 3y. Intermediate Course. [14]**
The equivalent of Course 3 but given in the Spring Term. Professor Riffaterre (course chairman) and Members of the Department. Section I M W F 10. Section II M W F 11. Section III M W F 1:10. Section IV Tu Th 10:35-11:50.
- 4. French through Literary Analysis. [14]**
The study of literary texts from Pascal to Rimbaud as a basis for improving the comprehension of written and spoken French. Work in the language laboratory is part of the course. Prerequisite: Course 3 or an appropriate score on the placement test. Professor Gavronsky (course chairman) and Members of the Department. Section I M W F 9. Section II M W F 10. Section III M W F 11. Section IV M W F 12:10. Section V Tu Th 9:10-10:25. Section VI Tu Th 10:35-11:50.
- 4x. French through Literary Analysis. [14]**
The equivalent of Course 4 but given in the Autumn Term. Dr. Terry (course chairman) and Members of the Department. Section I M W F 10. Section II M W F 11. Section III M W F 12:10. Section IV M W F 1:10. Section V Tu Th 10:35-11:50. Section VI Tu Th 2:10-3:25.
- 6x. Composition and Conversation. [0]**
Weekly compositions designed to improve writing skill. Review of grammar and syntax. Pronunciation, recitation, conversations based on selected readings. Work in the language laboratory is part of the course. Prerequisite: Course 4 or a satisfactory score on the placement test. Limited to 15 students. Professor Riffaterre. M W F 11.
- 11. Advanced French Grammar. [0]**
A systematic study of morphology and syntax. Exercises and free composition. Professor Riffaterre. M W F 1:10.

12. History of the French Language. [5]

A study of the distinguishing characteristics of the French language in their relation to literary expression from the Middle Ages to the present. Prerequisite: French 21, 22 or permission of the instructor. Dr. Terry. W 2:10-3:50.

[13. Advanced Composition and Explication. Not given in 1973-74.]**[14. Advanced Translation. Not given in 1973-74.]****16. Advanced Oral French. [0]**

Study of spoken French. Practice in pronunciation and intonation through conversation and oral *explications de texte*. Work in the language laboratory is part of the course. Nonmajors may take the course with permission of the instructor. Professor Riffaterre. M W 12:10.

Literature Courses

For nonmajors, courses marked thus § will count toward the general college requirement. All Barnard courses are conducted in French except Courses 47, 48, and 70.

§20. Special Themes in Modern French Literature.

Reading and discussion in French of selected works of contemporary interest. Textual analyses and essays. Each section will examine one of the following themes:

I. Female and Feminism. [2]

The mythic image of the female, the dilemma of the modern woman, and the rise of feminism in nineteenth- and twentieth-century literature. Authors include George Sand, Baudelaire, Flaubert, Becque, Colette, Breton, Mauriac, Montherlant, Beauvoir, Sarraute, Rochefort, and Leduc. Professor Stanton. M W F 10.

II. Negritude. [3]

The political, intellectual and aesthetic aspects of French-speaking African and Caribbean authors, including Senghor, Damas, Césaire, Laye, Diop, Fanon, Roumain, and Boukman. Professor Gavronsky. M W F 11.

§20x. Special Themes in Modern French Literature.

The equivalent of Course 20 but given in the Autumn Term.

I. The Language of Poetry. [2]

Tradition, freedom, variety, and invention in poetic expression in the nineteenth and twentieth centuries. Readings in Hugo, Baudelaire, Verlaine, Rimbaud, Valéry, Claudel, Apollinaire, Perse, the Surrealists, and mid-century poets. Professor Greene. M W F 10.

II. The Redefinition of Man. [12]

The search for meaning and the creation of values, as exemplified by traditional humanism (Valéry, Gide, Giraudoux), liberal Catholicism (Saint-Exupéry, Bernanos), and existentialism (Malraux, Sartre, Simone de Beauvoir). Mrs. Grace. M W F 12:10.

§21, 22. Masterpieces of Literature from the Middle Ages to the Twentieth Century. [14]

An examination of the scope and variety of French literature through analyses of the most significant works and currents from the Middle Ages to the twentieth century. Lectures, discussions and

close textual analyses. Autumn Term: Medieval, Renaissance and Classical Literature. Spring Term: the Age of Enlightenment, Romanticism, Realism and Symbolism. Prerequisite: satisfaction of the foreign language requirement in French. French 21 may be taken for credit *without* completion of French 22. Professors Bailey (course chairman, Autumn Term), Gavronsky and Geen (course chairmen, Spring Term). Section I M W F 10. Section II M W F 11.

- §21y. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part I.** [3]
The equivalent of Course 21 but given in the Spring Term. Professor Stanton. M W F 11.
- §22x. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part II.** [2]
The equivalent of Course 22 but given in the Autumn Term. Professor Riffaterre. M W F 10.
- [§23-24. The Culture and Institutions of France.**
Professor Gavronsky. Not given in 1973-74.]
- [§25-26 French Historical Prose.** Not given in 1973-74.]
- §31. The Middle Ages.** [3]
Major themes of medieval literature: profane and sacred love, heroism and anti-heroism, idealism and realism. Readings include narrative and lyric forms, both in Old French and in modern French translations. Prerequisite: Course 21, 22, or 23-24, or 25-26, or permission of the instructor. Dr. Terry. M W F 11.
- [§32. Renaissance and Classical Prose.** Not given in 1973-74.]
- [§33. Renaissance, Baroque and Classical Poetry.**
Not given in 1973-74.]
- [§34. The French Theatre of the Seventeenth Century.**
Not given in 1973-74.]
- [§35. The French Theatre of the Eighteenth and Nineteenth Centuries.**
Not given in 1973-74.]
- §38. The Nineteenth-Century French Novel.** [4]
Fiction from the pre-Romantic period to the eve of the First World War, including works by Chateaubriand, Constant, Hugo, Stendhal, Balzac, Flaubert, Zola, and Proust. Prerequisite: the same as for French 31. Professor Bailey. M W F 1:10.
- §39. Twentieth-Century French Theatre.** [2]
Tradition and innovation in the major French dramatists from Jarry and Apollinaire to Ionesco and Arrabal. Prerequisite: the same as for French 31. Professor Geen. M W F 10.
- §40. Twentieth-Century French Fiction.** [7]
The theory and forms of the novel and other prose genres. Readings will include works by Proust, Gide, Malraux, Sartre, Camus, and the *nouveaux romanciers*. Prerequisite: the same as for French 31. Professor Shroder. Tu Th 10:35-11:50.

- [§41. **Twentieth-Century French Thought.**
Professor Gavronsky. Not given in 1973-74.]
- §43. **French Women Writers.** [7]
A literary and cultural study of poets, prose writers, and influential groups, with emphasis on Marguerite de Navarre, Louise Labé, the *Précieuses*, Madame de Sévigné, Madame de LaFayette, the eighteenth-century *salons*, Madame de Staël, Desbordes-Valmore, George Sand, Colette, Beauvoir, Duras, Rochefort, Sarrazin. Prerequisite: the same as for French 31. Professor Greene. Tu Th 10:35-11:50.
- §44. **Materials and Techniques of French Poetry.** [2]
A survey of the evolution of poetic language and metrics from the *Pléiade* to Surrealism. Prerequisite: the same as for French 31. Professor Riffaterre. M W F 10.
- §47. **Byron and Stendhal.** [7]
Romanticism and irony in Byron's poetry and Stendhal's fiction, essays, and autobiographical writings; consideration of such themes as heroism and the nature of love, and such modes as confession, satire, and burlesque. Readings in English and French; lectures, discussions, and papers in English. Prerequisite: satisfaction of the foreign language requirement in French. Professor Shroder. Tu Th 10:35-11:50.
- §48. **The Literary Image of Love.** [12]
The nature of love in French fiction, poetry, and drama from Chrétien de Troyes to Proust. Other authors to be considered include Rabelais, Ronsard, Madame de LaFayette, Racine, Laclos, Constant, Stendhal, George Sand, and Flaubert. Readings in French; lectures, discussions, and papers in English. Prerequisite: satisfaction of the foreign language requirement in French. Dr. Terry. M W F 12:10.
- Seminars** The number of students in each seminar is limited and written permission is required in advance of registration period.
51. **Molière.** Professor Bailey. W 2:10-3:50. [0]
52. **André Breton.** Professor Gavronsky. M 2:10-3:50. [0]
- 59-60. **Senior Thesis.** [0]
Research into a precise topic of French literature and the preparation of a long essay. Open to seniors with honor grades. Students electing Course 59-60 take three one-term literature courses numbered 31-44 and one seminar; they are excused from the written major examination, and the thesis defense constitutes the oral section. Course 59 or 60 may be taken alone with special permission. Professor Shroder. Hours for consultation to be arranged.

French Literature in Translation

70. **The Comic Tradition.**
Readings in narrative and theatrical comedy from the sixteenth to the twentieth century. Authors to be considered include Rabelais, Molière, Voltaire, Beaumarchais, Stendhal, Flaubert, Gide, Beckett, and Ionesco. A knowledge of French is not required. Professor Shroder. Tu Th 2:10-3:25.

Graduate Courses The following graduate courses are given in English by members of the Barnard French Department. They are open to undergraduates only by written permission of the instructor. French majors may take them in addition to, but not in lieu of, the four literature courses and the two seminars as set forth in the major requirements.

G4501x. French Literature of the Nineteenth Century: the Novel.
Professor Shroder. W 10-11:50.

[G4603x. French Poetry in the Twentieth Century.
Professor Breunig. Not given in 1973-74.]

[G6705x. The Aesthetics of Modern Fiction.
Professor Shroder. Not given in 1973-74.]

Study Abroad Conducted at Reid Hall in Paris. Professor Danielle Haase-Dubosc, Director of Studies.

Intermediate Institutes Open to students, except Freshmen, who have completed first-year French, or its equivalent, or, in the Spring, third-semester French.

AUTUMN (15 weeks, September 6-December 20)

H1201p. Intermediate Course, first half.
Strong emphasis on the spoken language; pronunciation, oral-aural drill. Reading of contemporary texts. Inductive study of grammar. Professor Suleiman. M Tu W Th F 9-10, 10:30-12 and Tu W Th 2-3, for four weeks.

H1202q. Intermediate Course, second half.
Continued emphasis on spoken French; increased emphasis on reading and composition. Instructor to be announced. M Tu W F 9-10, for eleven weeks.

H3335q. Masterpieces of French Literature.
Analysis and discussion of major works of Medieval, Renaissance, and Classical literature. Professor Suleiman. M Tu Th F 11-12, for eleven weeks.

H3445q. French Civilization and Culture, I.
French art and architecture, illustrating the periods approached through literature in H3335. Instructor to be announced. M Tu W Th 2-3 and additional hours to be arranged, for eleven weeks. Fee \$25.

SPRING (15 weeks, January 21-May 10)

H1202r. Intermediate Course, second half.
Emphasis on spoken French and on reading and composition. Instructor to be announced. M Tu W Th F 9-10:15, for seven weeks.

H3335y. Masterpieces of French Literature.
The equivalent of Course H3335q, given by Professor Ruas in the entire spring term M W F 11-12.

H3356s. Third-year Grammar and Oral French.

Intensive review of grammar for precision and fluency; practice in pronunciation and intonation through oral drill and short reports on materials of H3335 and H3445. Professor Ruas. M Tu W Th F 9-10, for eight weeks.

H3445y. French Civilization and Culture, I.

The equivalent of H3445q, given in the entire spring term by an instructor to be announced. Tu W Th 2-3 and additional hours to be arranged. Fee \$25.

Advanced Institutes Open to students who have completed French 21, 22 or its equivalent.

AUTUMN (15 weeks, September 6-December 20)

H3442p. Advanced Composition and Explication.

A study of morphology and syntax. Readings from H3602 are used for analysis and *explication de texte* as well as for intensive training in composition. Professor Haase-Dubosc. M Tu W Th F 9-10:15, for seven weeks.

H3446x. French Civilization and Culture, II.

France since World War II and its particular sense of its own past—art, theatre, film, education, politics. Coordinated with H3602. Mr. Lecarme. Tu W Th 2-3 and additional hours to be arranged. Fee \$25.

H3602x. Contemporary French Literature.

Tradition and innovation in poetry, fiction, and theatre; the disappearing orders and the new structures; criticism as a form of literature. Major trends in the evolution of French thought since 1945, as illustrated in works of Sartre, Genet, Ionesco, Beckett, Robbe-Grillet, Butor, Barthes, Goldmann, and others. Professor Haase-Dubosc. M Tu Th F 11-12.

H3604q. Seminar on Contemporary France.

An introductory investigation of some of the new critical methods being developed in France. Professor Suleiman. M Tu Th F 9-10:15 for eight weeks.

SPRING (15 weeks, January 21-May 10)

H3442y. Advanced Composition and Explication.

A study of morphology and syntax. Readings from H3602 are used for analysis and *explication de texte* as well as for intensive training in composition. Professor Haase-Dubosc. M Tu Th F 9-10.

H3446y. French Civilization and Culture, II.

The equivalent of H3446x, given in the spring term, as above. Fee \$25.

H3602y. Contemporary French Literature.

The equivalent of H3602x, given in the spring term, as above.

H3606y. Supervised Study in France.

Special study in the French system, normally in the student's major field, under the supervision of the Institute staff. Courses may be selected from the offerings of the various Paris universities as well

as the *Institut d'Etudes Politiques*, the *Ecole du Louvre*, and others. These courses should, where appropriate, include participation in the indicated supplementary *cours de travaux pratiques*.

**The Junior
Year in Paris**

The two courses listed below constitute a full year's program, primarily for juniors sufficiently advanced in French and in their majors (should the major not be French) to be able to profit from the program and particularly from the tutorial (C3997-C3998), in which a thesis is normally written under the direction of a French expert on the student's particular area of interest.

C3991x-C3992y. Supervised Study in France.

Special study under the supervision of the Director of Studies of Reid Hall in Paris. This normally involves work in an individually arranged program, in courses in the various Paris universities, the *Institut d'Etudes Politiques*, the *Ecole du Louvre*, and others. Prerequisite: permission of the major adviser and the Chairman of the Barnard French Department.

C3997x-C3998y. Supervised Research in France.

Normally this course is open to students only in consultation with and under the supervision of the Director of Studies of Reid Hall in Paris and involves individual work with an established specialist in the student's major field. Prerequisite: permission of the major adviser and the Chairman of the Barnard French Department.

<i>Professor</i>	Leonard Zobler (Chairman; 334 Milbank Hall)
<i>Assistant Professor</i>	Toby Berger
<i>Instructor</i>	Garrett A. Smith, Jr.
<i>Lecturer</i>	Beverly Moss Spatt

Other officers of the University offering courses listed below:

<i>Professors</i>	William A. Hance, Kempton E. Webb
<i>Associate Professors</i>	Robert A. Lewis, John E. Oliver
<i>Assistant Professor</i>	Barry N. Boots
<i>Lecturer</i>	Miklos Pinther

Geography

The central questions of contemporary geography spring from its total view of the earth as a habitat for man. What are the relations between the locations of the natural features of the earth's surface and man's cultural and economic activities? Can homogeneous regions, large and small, be identified and how do they evolve? Why do cities locate where they do, grow to certain sizes, develop peculiar structures, perform unique functions, and relate to one another in ways that link them into systems of cities? When are natural resources conducive or restrictive for growth and change and does the role of nature differ in advanced or emerging societies? How serious a threat are resource depletion and environmental deterioration to the survival of man?

In pursuit of the answers to these questions, and others, geographers examine the behavior of man-environment spatial systems at different times and in different places. An understanding of the dynamics of the interactions among man, resources, technology, and space suggests ways for anticipating and ameliorating contemporary environmental problems and planning for the future. Geographers thus are involved deeply in regional and urban planning in both developed and under-developed regions.

A knowledge of earth science and social science is an essential part of geographic training. Geography 1, 2, 3, 4, and a year seminar (59, 60) are required. During the seminar a senior essay is prepared, usually based on original field research. The remainder of the major is tailored to the student's interests, which usually are along one of the following paths: natural resources, specialization in a region, as Africa, Latin-America, U.S.S.R., or Anglo-America, or a substantive field as urban geography, agriculture, manufacturing, location theory or physical geography.

In the place of a major examination each student in the senior seminar (59, 60) will prepare an essay.

Environmental Conservation and Management

Conservation is concerned with man's stewardship of the earth as his home and the proper management of its resources. The particulars of this program will be found on pages 56-58 under **Interdepartmental Majors**.

Geography

1, 2. Environmental Science.

The natural environment of man viewed as the fusion of spatially interacting processes, cycles, and forms close to the earth's surface. Environmental modifications and deteriorations caused by pressures of urbanism, technology, and population. Autumn Term: disturbances of natural equilibria induced by human settlement patterns and activities on air, water, soil, landform, open space, biota, and on man himself. Remedial measures and conservation issues. Spring Term: ecosystem analysis of pristine and altered biomes, natural resource-using systems of agro-industrial society and their degenerative feedbacks. Ecologic surveying for town, country, and regional planning for environmental stability. The city as a unique habitat and elements of man-designed environments. Lectures are given jointly with Columbia College. This course satisfies the basic science requirement. Permission for laboratory assignment required. Professors Oliver, Zobler. Lec. Tu Th 12. Lab. M 2:10-5, Tu 9-11:50, W 2:10-5, Th 9-11:50; 2:10-5.

§3. Agricultural Development and Agrarian Societies. [10]

An ecologic and economic review of world agriculture and associated rural institutions according to natural biomes. Differential roles of land, labor, and capital in productivity. Special attention will be given to population and food supply, land reform and agricultural policy, rural-urban migration, agriculture and economic growth, and land and soil exhaustion. Case studies, individual or group reports, and possible field trips. Professor Zobler. M W 3:10, tutorials.

§4. Ecology of Urban-Industrial Society. [9]

The geographic and technologic correlates of urban-industrial society. The restructuring of an agrarian economy under the impact of the industrializing process. Rural-urban population flows, raw material inputs, manufacturing and transport patterns, regional growth and world urbanization, city structure and central place systems, and environmental change viewed as elements in an industrial ecosystem. Two field trips and reports. Mr. Smith. Tu Th 2:10-3. Field trip fees approximately \$10.

[17. Cartography.

Not given in 1973-74.]

[31. Environmental Policy. Not given in 1973-74.]

32. Land Use and Transportation.

A study of the inter-relations between land use and transportation in metropolitan areas and their joint impact on the geography of regional development. Special attention will be given to the private-public mass transport issue, housing and other land uses, restrictive zoning ordinances, and planning. Mrs. Spatt, F 12-2, tutorials.

33. Environmental Planning and Perception. [4]

Introduction to planning theory and practice with an emphasis on the environmental quality of the core cities and surrounding suburbs of metropolitan areas. Special topics include housing, waste disposal, open space, neighborhoods, and citizen participation and confrontation. Examples taken from New York City and new towns.

Permission of the instructor required. Mrs. Spatt. W 1:10-3, tutorials.

35. The New York Metropolitan Region.

The transformation of the tri-state area from a natural landscape into an urban metropolis. Contemporary geographic anatomy of the metropolitan region; core city, satellite city, and suburban inter-relations. Internal locational patterns of industrial, commercial, residential, and open space land uses. Intra-regional traffic flows. Public infrastructural facilities. Subregions of specialized activities and communities. Mr. Smith, F 2:10-4, plus field trips to be arranged. Field trip fees approximately \$10.

[W4011x. Pedology and Soil Resources.

Professor Zobler. Not given in 1973-74.]

W4012x. Hydrology and Water Resources.

Hydrologic cycle analysis and its application to water management. Introduction to the principles and instrumentation of surface and ground water flows. Resource planning for potable supplies, waste disposal, and recreational uses in metropolitan and rural areas. Case studies, two one-day fields trips, and occasional laboratory sessions. Given alternately with W4011x. Professor Zobler. Tu 3:10-5, Th 3:10-4.

W4014y. Conservation Theory and Environmental Management.

Impact of ecosystem analysis and conflicts over environmental quality control on conservation theory. The role of economic, political, managerial, perceptual, and scientific factors in shaping decision criteria for allocating natural resources. Ecologic survey methods for environmental planning: parks; unique habitats; agricultural, commercial, and industrial locations; pollutional effluents; and open space in metropolitan areas. Case study reports. Professor Zobler. Tu Th 3:10-4.

C3019x. Problems of Developed and Underdeveloped Areas.

Introduction to the theory and methodology of economic and regional geography through the analysis of problems of developed (Western European) and underdeveloped (African) areas. Topics include: population, resources, infrastructural and sectoral studies, regional development, integration and disintegration, and urban problems. Professor Hance. M W 11:12-15.

[C3501y. Africa.

Professor Hance. Not given in 1973-74.]

W3015x. Landform Evolution and Analysis.

A physical-geographic analysis of landforms and the surficial processes resulting in their modification. Special consideration is given to man's role in modifying the rates at which such processes occur and their environmental consequences. Analysis of topographic maps and air photos. Professor Oliver. Tu Th 10. Third hour to be arranged.

W3071x-W3072y. Quantitative Techniques in Geography.

Theory and techniques of measuring geographic distributions. Descriptive and analytical methods (regression, factor analysis) useful in dealing with areal associations and interactions. Introduction to "packaged" programs useful for displaying and analyzing spatial patterns (including Symap and Trend Surface). Additional selected programs (point pattern analyses, frequency distributions, and taxonomic procedures. Professor Boots. Tu Th 11-12;15.

W4018y. Cartography.

The use of maps for illustrative and statistical purposes, as point, line, and area symbols, and for geographic analysis. A survey of photogrammetry and remote sensing and of modern map production methods. Experience in cartographic drafting, compilation, design, and evaluation. Use of aerial photographs in mapping and as map supplements. Prerequisite: Permission of the instructor. Mr. Pinther. F 1:10. Lab. F 2:10-4.

W4025y. General Climatology.

Introduction to the physical processes of the atmosphere and their application to studies in regional and applied climatology. Laboratory work: analysis of climatic data. Professor Oliver, Th 4:10-6.

W4030x. Cultural Geography.

The concept of culture applied to geographic problems. Man viewed as the ecological dominant whose cultural imprint upon the earth's surface may be analyzed as the result of cultural, economic, and physical processes interacting through time. Readings in related fields and some interpretation of air photographs. Professor Webb. Tu 2:10-4.

W4041y. Urban Geography.

Geographic aspects of urbanization; contemporary theories of the economic, social, and spatial structure of cities evaluated in terms of their application to existing patterns. Professor Boots. M 11-12:50.

W4050y. Population Geography.

Emphasis on concepts pertaining to population change and their relationship to geographic problems. Topics include population policy, population growth, fertility, mortality, migration, select population characteristics, and food and resource problems related to population growth. The impact of population change on society. Professor Lewis. M 2:10-4.

W4201x-W4202y. Latin America.

Physical and cultural geography of Latin America. Systematic treatment of physical resource bases, pre- and post-Columbian landscapes, land use and tenure systems, spread of settlement, agriculture and industry, regional variations of resource definition and political influence, migration and regional development schemes. Evaluations and projections focus upon current problems of the environment, urban growth, and population. W4201: Mexico, Central America, and Caribbean. W4202: South America. Professor Webb. W 2:10-4.

W4401x. Economic and Population Geography of the USSR.

Emphasis on population change and its relationship to the economic

geography of the USSR. Topics include the natural environment, resources, the distribution of economic activity, population policy, population growth, fertility, mortality, migration, urbanization, ethnic composition, and work force. The impact of population change on Soviet society. Professor Lewis. M 11-12:50.

W4501x. Africa: Systematic Geography.

A systematic approach to the geography of Africa, with emphasis on topics relating to economic development. Opportunities and limitations in agriculture, mining, and industry. African demography, migration, and urbanization. Regionalism in Africa. Professor Hance. Tu 9-10:50.

59, 60. Seminar in Geography.

[0]

Readings, discussions, and reports on various topics from the research literature. Preparation of the senior essay. Required of senior majors. Professor Zabler. Hours to be arranged.



<i>Professor</i>	John E. Sanders (Chairman; 328B Milbank Hall)
	Other officers of the University offering courses listed below:
<i>Professors</i>	Roger L. Batten, Wallace S. Broecker, Ian Dalziel, ¹ Rhodes W. Fairbridge, Ralph J. Holmes, John E. Nafe
<i>Associate Professors</i>	Arnold L. Gordon, James D. Hays, Peter J. M. Ypma
<i>Assistant Professors</i>	Robert Kay, David L. Campbell (Mining), H. James Simpson
<i>Lecturer</i>	Walter Alvarez
<i>Adjunct Professor</i>	Robert Jastrow
<i>Adjunct Associate Professor</i>	Richard C. J. Somerville
<i>Lecturer</i>	Vivien Gornitz

¹ Absent on leave, 1973-74.

Geology Geology deals with the study of the earth, applying various aspects of all modern sciences, especially chemistry, physics, and biology. The central theme of geology involves the many interwoven reactions which constitute the geologic cycle. The geologic cycle results from the effects of solar energy on the earth and on the organisms inhabiting the earth. In addition, the cycle depends on internal energy from the earth itself, which powers various igneous and tectonic processes. Geology is concerned with an understanding of how the operations of the geologic cycle in various environments through time have shaped the earth's surface and have created the geologic record. In the geologic record are preserved a decipherable history of past environments and of the progression, through time, of the populations of organisms that have inhabited the earth. A pressing modern concern of geology deals with the interactions between man's technologic cycle and the natural geologic cycle.

The first year of study may be selected from among three sequences: (1) a broad, general introductory course (V1021x, V1022y), (2) an introductory course emphasizing ocean science (V1031x) and planetary geology (V1032x), or (3) an introductory course emphasizing man's physical environment (V1041x). A year's work satisfactorily completed in any of the sequences fulfills the laboratory science requirement. With permission of the department a student may enter advanced courses in geology after completing one of these sequences.

Students having extensive preparation in mathematics, physics, and chemistry who desire to apply these disciplines to the study of the earth should enroll in V1051x and V1052y.

Major programs include three options: Option A: pre-professional preparation in non-biologic aspects of geology; Option

B: pre-professional preparation in biologic aspects of geology;
Option C: Earth Science major, including selected fields of study within geology and physical geography. Geologic concentration in problems of the coastal zone is also possible in Barnard's interdepartmental program on Environmental Conservation and Management.

Students electing any of the major options will take a sequence of courses which will be worked out in consultation with their major adviser. Majors in geology should plan to spend at least one summer in geologic mapping at an approved geologic field camp, in research activities at an oceanographic institution, or as a participant in an approved field research program being carried out elsewhere.

There is no major examination, but a satisfactory research paper prepared in conjunction with a senior seminar is required.

Students contemplating graduate study in geology should plan their programs to include a reading knowledge of two modern foreign languages (German, French or Russian generally), and a year course in chemistry, physics, and mathematics (including calculus for students choosing major Option A, and statistics for major Option B).

Environmental Conservation and Management

Conservation is concerned with man's stewardship of the earth as his home and the proper management of its resources. Students in the interdepartmental program in Environmental Conservation and Management who desire to concentrate in coastal studies are required to take as electives Geology W4226y, Environmental Conservation and Management 48, and TK 4802 (Teachers College), and to carry out their research in some coastal project. The core courses and further particulars of the program are found on pages 56-58 under **Interdepartmental Majors**.

V1021x. Physical Geology.

The composition and structure of the earth, the internal and external forces acting upon it, and the surface features resulting. Laboratory includes study of common rocks and minerals, of contour maps as means of depicting the earth's morphology, and of geologic maps to infer the subsurface structure of the earth's crust, and three required field trips to local geologic features: Fire Island (Sept. 8 or 9), Edgewater, N.J. (Oct. 12, 13, or 14), and Fort Tryon Park (Oct. 19, 20, or 21). Professor Sanders and staff. Lec. M W F 10; Lab. (3 hours) Sections: (I) M 2:10-5; (II) Tu 9-11:50; (III) 2:10-5; (IV) W 2:10-5; (V) Th 9-11:50; (VI) 2:10-5.

V1022y. Historical Geology.

The history of the earth and of the life upon it from the beginning to modern times. The laboratory and assigned work include study of invertebrate fossils and of geologic maps and structures, museum

trips, short field trips, and a required one-day field trip to Catskill, N.Y. (Apr. 26, 27, or 28). A research paper on a geologic topic is due on April 19. Prerequisite: V1021x. Professor Sanders and staff. Lec. M W F 10. Lab. (3 hours) Sections: (1) M 2:10-5; (2) Tu 9-11:50; (3) 2:10-5; (4) W 2:10-5; (5) Th 9-11:50; (6) 2:10-5.

V1031y. Ocean Science.

The course initially considers the ocean basins as geological features and reviews the recent exciting research in continental drift and the origin of ocean basins. The ocean water is considered as a life-support system and the role of circulation and nutrient supply is examined. In the light of the workings of the natural system, man's influence on the ocean is studied. Relationship of oceanic processes to climate and weather. Laboratories deal with some of the current techniques used in ocean research. Recommended preparation: high-school physics, chemistry and mathematics. Professor Hays. Lec. Tu Th 9. Lab. hours to be arranged.

V1032x. Planetary Geology.

New perspective on the earth derived from recent observations of the Moon, Mars, Venus, and meteorites. Evolution of the morphologies and atmosphere of these objects. The bearing of new data on some long-accepted views of earth history. The role that geologic processes have in determining the conditions of life on the planet Earth. The genesis of oxygen in Earth's atmosphere and the creation of oceans on the Earth's surface. Laboratories will deal with photographic, seismic, chemical and other techniques used for planetary studies. Recommended preparation: some background in high school physics, chemistry and mathematics. Dr. Gornitz. Lec. M 9-11; W 10-11. Lab hours to be arranged.

V1041x. Man's Physical Environment.

Processes taking place in the earth's lithosphere, hydrosphere and atmosphere which bear on man's attempt to cope with his environment. Topics such as pollution control, weather modification and earthquake prediction will be considered. Lectures deal with global aspects of these problems and laboratories with the urban aspects. Emphasis is placed on the role of the scientist; an attempt is made to integrate the economic, political and sociological implications. Recommended preparation: some background in high school physics, chemistry and mathematics. Professor Broecker. Lec. M W 6:10-7:25. Lab. hours to be arranged.

V1051x. Principles of Geology, I.

Materials, forms, structures and processes that occur at the earth's surface. Development of the earth's surface in time. Geology as a factor in determining man's physical environment. Occasional lectures by research scientists on subjects of current interest. Prerequisite: high school chemistry, physics and mathematics. Corequisite: a term of physics or chemistry. This course is pre-requisite for advanced undergraduate geology courses. To be taken together with Geology V1052 in either order, with permission of the instructor. Professor Nafe. Tu Th 4:10. One 2-hour laboratory-conference a week and field trips to be arranged.

V1052y. Principles of Geology, II.

Materials, forms, structures and processes that occur within the earth. Endogenetic processes that governed the earth's development in time. Reaction rates and equilibria within the earth's crust.

Occasional lectures by research scientists on subjects of current interest. Prerequisite: high school chemistry, physics and mathematics. Corequisite: a term of physics or chemistry. Professor Nafe. Lec. Tu Th 4:10. One 2-hour laboratory-conference period a week and field trips to be arranged.

V3045y. Elements of Structural Geology.

Training in the recognition and interpretation of geologic structures both in the field and on geological and topographical maps. Prerequisite: Course V1051x, V1052y, or permission of the department; W4113x, W4114y. Dr. Alvarez. Tu Th 11. Lab. Tu 2:10-5. Field work to be arranged.

V3522y. Exploration Geology and Mining Geophysics, I.

The geological environment of mineral deposits and their structural control. Ore genetical principles as a guide to mineral deposits. Geochemical and geophysical anomalies related to mineral deposits, their detection and interpretation. Prerequisite: V1051x, V1052y, or W4007. Professors Ypma and Campbell. M W F 10.

W4008x. Introduction to Atmospheric Science.

Observational data concerning the atmosphere; radiative, convective and turbulent processes; equations of motion of geophysical fluid dynamics; general circulation and thermal structure of the atmosphere; physics and dynamics of clouds; meteorological satellite and new observation systems. Open to seniors majoring in one of the physical sciences. Professors Somerville and Jastrow. M W 9-10:30.

W4113x. Elements of Mineralogy and Crystallography — Nonsilicates and Ore Minerals.

Crystallography, including principles of symmetry, internal structure of crystals, coordination, bonding, and external crystal form. Physical properties, occurrence, mode of origin, and the economic and geologic significance of the ore minerals and the nonsilicates. Application of physical properties and chemical tests in the recognition of minerals. Given in sequence with Geology W4114y. Prerequisite: Geology V1051x, V1052y, and elementary college physics, and chemistry, or permission of the instructor. Professor Holmes. Tu Th 11. Lab. Tu 1:10-4.

W4114y. Elements of Mineralogy and Crystallography — Silicates and Rock-Forming Minerals.

Physical properties, occurrence, mode of origin and geologic significance of the more important silicates and other rock-forming minerals. Application of physical properties and chemical tests in the recognition of minerals. Given in sequence with Geology W4113. Prerequisite: W4113x, elementary physics and chemistry, or permission of the instructor. Professor Holmes. Tu Th 11. Lab. Tu 1:10-4.

W4120y. Analytical Mineralogic Techniques.

Analytical methods for mineral identification and study, including the polarizing petrographic microscope, the reflecting polarizing microscope, x-ray diffraction (both powder and single crystal methods), x-ray fluorescence, and differential thermal analysis. Prerequisite: Course W4113x and W4114y or equivalent. Professor Holmes. Tu Th 10. Lab. Th 1:10-4.

W4327x. Principles of Geomorphology.

Lectures, map study, and readings on geomorphic principles. The origin of surface features of the earth as controlled by the interaction between geologic structures and erosional processes. Prerequisite: one year of geology. Professor Fairbridge. M W F 1:10. Lab. W 3:10-5.

W4009x. Chemical Geology, I. Atomic Structures and Physical Properties of Solids.

Atomic theory, bond theory, lattice types, the interaction of electromagnetic waves and solids; x-ray crystallography, crystal chemistry of common oxides, sulfides and rock-forming minerals. Prerequisite: W4113x or its equivalent, or permission of the instructor. Professors Broecker, Kay, and Simpson. Lec. M W 5:10-7 p.m. Lab. M 1:10-2:30.

W4010y. Chemical Geology, II. Fundamental Concepts in Chemical Equilibria and Petrology.

Thermodynamical properties of solids, stable and unstable isotopes, statistical mechanics of geological processes, phase equilibria involving solids and liquids, sulfides, carbonates, and rock-forming minerals. Prerequisite: W4009x or permission of the instructor. Professors Kay and Ypma. Lec. M W 10:30-12. Problem Session 1 hour a week, to be announced.

[W4661x. Introduction to Paleontology.

Professors Batten and Hays. Not given in 1973-74.]

W4226y. Marine Sedimentology.

Theory and techniques of modern marine sedimentology, including processes associated with deposition and diagenesis. Prerequisite: W4113x, W4114y, W4661x, and one term of college chemistry. Expenses: \$10. Professor Sanders. Lec. M W 1:10. Lab. W 2:10-4.

W4701y. Introduction to Petrology.

The classification and genesis of igneous, sedimentary, and metamorphic rocks. The major rock types will be examined in hand specimens and under the microscope. Prerequisite: V1051x, V1052y and elementary knowledge of physics and chemistry. Professor Kay. Lec. Tu Th 5:10. Lab: 2 hours to be arranged.

W4927x. Introduction to Oceanography.

Physical and chemical oceanography — the treatment will be quantitative. Properties of sea water; water masses and their distribution; sea-air interaction influence on the ocean structure; basic oceanic circulation pattern; relation of diffusion and advection with respect to distribution of ocean elements; measurement techniques and methods of data processing and analysis. Prerequisite: basic mathematics and inorganic chemistry. Professors Gordon and Simpson. Lec. Tu Th 6:30-8.

60. Seminar in Geology.**[0]**

A seminar course with discussions, problems, and readings on various problems in geology. Prerequisite: a year of geology. Required of senior majors. Professor Sanders. Hours to be arranged.

Columbia Courses

The following courses are open to qualified students with the permission of the Barnard chairman. Courses in brackets are given only in alternate years, and will not be given in 1973-74.

- W3048y. Introduction to Field Geology.
- [W4030y. Climatic Change.]
- [W4049x. World Regional Geology.]
- [W4053x. Geology of the New York Region.]
- W4411y. Principles of Structural Geology.
- W4941x. Principles of Geophysics.
- W4883x. Principles of Geochemistry.
- W4521x. Exploration Geology and Mining Geophysics.
- TK4802. (Teachers College). Coastal Oceanography.
- [G4662y. Biostratigraphy.]



<i>Associate Professors</i>	Brigitte L. Bradley (Chairman; 320B Milbank Hall), Gertrud M. Sakrawa
<i>Assistant Professor</i>	Frederick G. Peters
<i>Instructor</i>	Elisabeth McLaughlin

The courses in the German Department are designed to develop proficiency in all the language skills and to present the cultural and literary traditions of the German speaking countries.

Students who intend to continue the study of the German language will be placed in the appropriate courses on the basis of their CEEB scores or, if such are not available, on the basis of a placement test taken before registration. The language requirement is fulfilled by the completion of German 4 or 4x. New students who have already demonstrated competence in German may enroll in any of the advanced courses.

The literature courses taught in German are open to all students who have completed German 4, 4x, or the equivalent. There are no prerequisites for the literature courses in translation.

A student majoring in German will plan her program to include German 5 (or the equivalent) and eight literature courses conducted in German, one of which is to be a colloquium. The major examination consists of a three-hour written section (in English) and of an individual oral examination of a half hour (in German). With special permission a student may submit a senior essay (Course 62) in place of the written section.

Students who elect German as part of a combined major will work out their special program in consultation with the departments concerned.

Language Courses

- | | | |
|-------------|---|------------|
| 1-2. | Elementary Full-Year Course. | [0] |
| | Elements of grammar, easy reading, written and oral practice. Professor Sakrawa, Professor Peters, and Mrs. McLaughlin. Section I M W F 9. Section II M W F 12:10. Required oral sections may be chosen as follows: Section I Tu Th 9. Section II Tu Th 11. | |
| 1y. | Elementary Full-Year Course. Part I. | [0] |
| | Same as Course 1, but given in the Spring Term. Mrs. McLaughlin. M Tu W Th F 9. | |
| 2x. | Elementary Full-Year Course. Part II. | [0] |
| | Same as Course 2, but given in the Autumn Term. Professor Sakrawa. M Tu W Th F 9. | |

3. **Intermediate Course.** [15]
Close reading and rapid reading, grammar review, practice in speaking and writing. Professor Bradley and Mrs. McLaughlin. Section I M W F 10. Section II M W F 1:10.
- 3y. **Intermediate Course.** [4]
Same as Course 3, but given in the Spring Term. Professor Sakrawa. M W F 1:10.
4. **Literary Appreciation.** [15]
Study of German based on a variety of readings. Stylistic analysis. Practice in speaking and writing. Professor Bradley and Mrs. McLaughlin. Section I M W F 10. Section II M W F 1:10.
- 4x. **Literary Appreciation.** [2]
Same as Course 4, but given in the Autumn Term. Professor Bradley. M W F 10.
5. **Advanced Oral German and Composition.** [0]
A variety of short readings as a point of departure for discussions and stylistic exercises. Emphasis on idiomatic usage and syntactical structures in order to develop fluency in speaking and proficiency in writing. Mrs. McLaughlin. M W F 1:10.
- 7, 8. **Elementary and Intermediate Translation.** [2]
Autumn: Introduction to the comprehension and translation of German into English. Recognition of structures and vocabulary. Spring: Translation of texts from various fields such as art history, science, philosophy, cultural criticism. Classes are conducted in English. The courses may not be used to fulfill the language requirement. Professor Peters. M W F 10.

Literature Courses

For nonmajors, courses marked thus § will count toward the general college requirement. All courses are conducted in German except Courses 50, 55y, and 56x. Prerequisites for courses taught in German: Course 4, 4x, or the equivalent. All examinations are written in English. Students may write their papers in German or English.

- §11. **Studies in German Literature** [3]
Selected works from Lessing to Brecht. Thematic analyses in the context of concurrent cultural trends and prevailing social conditions. Readings include plays, narratives, and a few poems. Professor Bradley. M W F 11.
- §14. **German Literature at the Turn of the 20th Century.** [3]
A study of plays and prose writings that reflect the naturalistic doctrine of determinism, Freudian psychology, Nietzsche's influence, and existentialist thought. Selected works by Nietzsche, Hauptmann, Musil, Rilke, Mann, Hesse, Kafka, and others. Professor Bradley. M W F 11.
- [§15. **Goethe and Schiller.** Professor Sakrawa. Not given in 1973-74.]
- [§16. **German Romanticism.** Professor Sakrawa. Not given in 1973-74.]
- [§25. **Great German Dramatists and Theaters of the 19th Century.** Professor Sakrawa. Not given in 1973-74.]

- §26. **Modern German Theater.** [7]
The contemporary playwright's conception of the stage as a forum to raise consciousness. Plays by Brecht, Weiss, Dürrenmatt, Frisch, Hacks, Handke, and others. Professor Bradley. Tu Th 10:35-11:50.
- §27. **Nineteenth-Century Realism in German Prose Fiction.** [7]
A view of society as presented in novels and novellas by Keller, Raabe, Fontane, Thomas Mann and others. Professor Sakrawa. Tu Th 10:35-11:50.
- [§28. **Modern German Prose Fiction.**
Professor Bradley. Not given in 1973-74.]
- [§32. **German Poetry in Our Century.**
Professor Bradley. Not given in 1973-74.]
- [§36. **Goethe's Faust.** Professor Sakrawa. Not given in 1973-74.]
- [§45. **Literary Traditions in the Times of the Medieval Empire.**
Professor Bradley. Not given in 1973-74.]
- §46. **German Literature in the Eighteenth Century.** [9]
Rationalism, Sentimentalism, and *Sturm und Drang* as manifested in works by Lessing, Wieland, Klopstock, Herder, Goethe and Schiller. Professor Sakrawa. Tu Th 2:10-3:25.
- §61. **Colloquium. Kleist and His Contemporaries.**
A study of Kleist's dramas and novellas in comparison with classicist and romantic works of the period. Professor Sakrawa. Tu Th 2:10-3:25.
62. **Senior Essay.** [0]
Senior essay, based on the work of Course 61 or on individual research. Regular consultations with the instructor at hours to be arranged.

German Literature in Translation

50. **An Author's Work in Translation: Hermann Hesse** [5]
A study of the fiction of Hermann Hesse in the context of the 20th century German novel; attention will also be given to the influence upon his works by Nietzsche, Freud, and Jung. A knowledge of German is not required. Professor Peters. M W 2:10-3:25.
- 55y. **Masterpieces of German Literature in Translation.** [9]
A study of major works of the Middle Ages, the Enlightenment, Storm and Stress, Classicism, Romanticism, and 19th century Nihilism. Among works and authors to be read: *Tristan*, Lessing, Goethe, Schiller, Büchner, Nietzsche, and Mann. A knowledge of German is not required. Professor Peters. Tu Th 2:10-3:25.
- 56x. **Modern German Literature in Translation.** [9]
A study of significant dramatists and novelists of the 20th century, with some consideration given to the influence of Marxism and psychoanalysis. Ibsen, Strindberg, Brecht, Mann, Kafka, Musil, Frisch, and others. A knowledge of German is not required. Professor Peters. Tu Th 2:10-3:25.

<i>Professor</i>	Helen H. Bacon (Chairman; 217 Milbank Hall)
<i>Associate Professor</i>	Lydia H. Lenaghan ¹
<i>Assistant Professor</i>	Ann Cornell Sheffield
<i>Lecturer</i>	Vassilios Christides

Other officers of the University offering courses listed below:

<i>Professors</i>	William M. Calder III, ² Henry S. Commager, Jr., Walther Ludwig, Howard N. Porter, Leonardo Tarán
<i>Associate Professors</i>	Coleman H. Benedict, James A. Coulter
<i>Assistant Professors</i>	Peter Smith, Joseph Solodow, Richard L. Wertis

¹ Absent on leave, Autumn Term.

² Absent on leave, 1973-74.

The general objectives toward which the work of the department is directed are a knowledge of the language and an understanding of the literature and civilization of the ancient Greeks and Romans. The emphasis varies in accordance with the student's interests.

A major in Greek: Eight courses in Greek above the elementary course. These must include Greek V3319 or V3320, and either Greek-Latin 61, 62 or Greek G4105x-G4106y.

A major in Latin: Eight courses in Latin above the elementary course. These must include Latin V3319 or V3320, and either Greek-Latin 61, 62 or Latin G4105x-G4106y.

A combined major in Greek and Latin may be arranged for qualified students on consultation with the major adviser.

For the major in Ancient Studies see p. 52.

Students who complete Greek or Latin V3998x or y with distinction, and whose other work in the major is of sufficiently high quality, will be eligible for the degree with honors.

Other fields: Courses in ancient art, archaeology, history, philosophy, religion, other languages, and linguistics are strongly recommended.

Barnard College participates in the program of the Inter-collegiate Center for Classical Studies in Rome. Students who have completed at least four semesters of Latin above the elementary course, and at least one semester of elementary Greek, are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be counted toward the major and, in some cases, toward the fulfillment of the general requirements.

Barnard College is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are open, without fee, to graduates of the College.

Foreign Language Requirement for the Degree: Students may fulfill the foreign language requirement in Greek or Latin either by completing Greek 11, 12 or Latin 3, 4, or one semester above Greek 12 or Latin 4; or by passing an exemption examination with a sufficiently high grade. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin.

Classics in Translation

[Classical Literature 35. **The Ancient Novel.** Professor Bacon. Not given in 1973-74.]

Classical Literature 32y. **Classical Myth.** [2]
A survey of major myths from the ancient near east to the advent of Christianity, with emphasis upon the content and treatment of myth in classical authors (Homer, Hesiod, Aeschylus, Euripides, Sophocles, Vergil, Livy, Ovid). Professor Lenaghan. M W F 10.

Byzantine Literature 37x. **The Literary World of Byzantium.** [17]
Secular, ecclesiastical, and hagiographical texts of Byzantine literature from its beginnings (4th century A.D.) to the 15th century. Dr. Christides. W 4:10-6.

Classical Literature V3123x. **Greek Drama and Its Influences.**
The major Greek tragedies and comedies, and their influence on Roman and later European drama. Theories of comedy and tragedy including those of Aristotle. The production of plays. Professor Bacon. M W F 11.

[Classical Literature V3201x. **The Social and Political Ideas of Plato.**
Professor Schein. Not given in 1973-74.]

Classical Civilization V3155x. **Politics and Political Theory in Classical Athens.**
Since the content of V3155x changes each year, it may be taken for credit in consecutive years.
Democracy and empire in Athens of the 5th and 4th centuries. The structure of Athenian democracy, and the relationship between political institutions and imperial power. The role of mass persuasion and propaganda. Assessments, favorable and otherwise, of democratic institutions, in particular decision-making processes, by the Sophists, Isocrates, Plato, and practicing politicians. Professor Coulter. M W 1:10-2:25.

Classical Civilization V3156y. **Daily Life of the Ancient Romans.**
Since the content of V3156y changes each year, it may be taken for credit in consecutive years.

The city, the family, education, entertainment, war, and politics. Professor Wertis. M W F 2:10.

Other courses relating to classical antiquity are listed under Studies in the Humanities.

Greek Language and Literature

For nonmajors, courses marked thus § will count toward the general college requirement.

1-2. Elementary Full-Year Course. [2]

Grammar, composition, and reading. Course 1 is prerequisite to Course 2. Professor Sheffield. M W F 9:40-10:50.

W1101x-W1102y or W1101y.

Elementary Course.

Equivalent to Course 1-2.

W1101x-W1102y. Section I: Professor Smith. M W F 11-12:15.

Section 2: Instructor to be announced. M W F 6:10-7:25.

W1101y. Instructor to be announced. M W F 6:10-7:25.

§11. Prose and Poetry. [2]

Selections from Lysias, Herodotus, and elegy. Prerequisite: Course 1-2, or the equivalent. Professor Sheffield. M W F 10.

§W1201x. Prose and Poetry.

Equivalent to Course 11. Professor Tarán. M W F 1:10.

§12. Selections from Homer. [3]

Prerequisite: Course 11 or permission of the instructor. Professor Sheffield. M W F 11:00.

§W1202y. Homer.

Equivalent to Course 12. Professor Smith. M W F 1:10.

[§V3305x. Tragedy. Not given in 1973-74.]

[§V3306y. Historians. Not given in 1973-74.]

§V3307x. Comedy.

Selections from Aristophanes; studies in the origin and development of Greek comedy. Prerequisite: Course 11 and Course 12, or their equivalents. Given alternately with Greek V3305. Professor Benedict. M W F 10.

§V3308y. Philosophy.

Reading and discussion of selections from the major pre-Socratic thinkers (Heraclitus, Parmenides, Empedocles, Zeno, Melissus, and Anaxagoras), and from Plato. Prerequisite: Course 11 and Course 12, or their equivalents. Given alternately with Greek V3306. Professor Tarán. M W 11-12:15.

§V3309x. Selections from Greek Literature, I.

Since the content of this course changes each year, it may be taken for credit in consecutive years.

Political oratory: Thucydides, Lysias, Isocrates, and Demosthenes. The role of speech-making in Athenian political life. Theory and techniques of mass persuasion and propaganda. Prerequisite: Course 11 and Course 12, or their equivalents. Professor Coulter. M W 11-12:15.

§V3310y. Selections from Greek Literature, II.

Since the content of this course changes each year, it may be taken for credit in consecutive years.

The genesis of pastoral poetry, and the Greek epigram from the beginnings to the Hellenistic Age. Prerequisite: Course 11 and Course 12, or their equivalents. Professor Smith. Tu Th 11-12:15.

V3319x. Prose Composition, I

The writing of sentences and connected passages in Greek. Prerequisite: at least four terms, or the equivalent, of Greek. Professor Solodow. M 4:10-6.

[V3320y. Prose Composition, II. Not given in 1973-74.]**V3997x or y. Directed Reading.**

To be tested by a series of short papers, one long paper, or an oral or written examination. Prerequisite: permission of the chairman of the department. Members of the Barnard and Columbia Departments. Hours to be arranged.

V3998x or y. Supervised Research in Greek Literature.

A program of research in Greek literature, with the composition of a paper embodying results. Prerequisite: permission of the chairman of the department. Members of the Barnard and Columbia Departments. Hours to be arranged.

§G4105x-G4106y. History of Greek Literature.

Lectures based on extensive readings in Greek literature from Homer to the fourth century A.D. Prerequisite: at least two terms of Greek beyond Course 11, 12. G4105x, Professor Smith. M 2:10-4, and a third hour to be arranged. G4106y, Professor Tarán. M 4:10-6, and a third hour to be arranged.

Greek-Latin Comparative Readings in Greek and Latin Literature. [0]

61y, 62x. Greek and Roman writers examined and compared through a study of selected genres. Students proficient in only one language may read authors of the other language in translation. Oral reports, short paper, final examination. Open to juniors and seniors with permission of the instructor. 62x, Autumn Term: didactic poetry, lyric, drama. Professor Bacon. Tu 1:10-3, and a third hour to be arranged. 61y, Spring Term: epic, historiography, oratory. Professor Sheffield. Tu 1:10-3, and a third hour to be arranged.

Latin Language and Literature For nonmajors, courses marked thus § will count toward the general college requirement.

1-2. Elementary Full-Year Course. [3]

Grammar, composition, and reading. Course 1 is normally prerequisite to Course 2. Course 2 may be taken without Course 1 by permission of the instructor. It includes a complete review of grammar and syntax. Instructor to be announced. M W F 11-12:15.

W1101x-W1102y, Elementary Course.

W1101y, Equivalent to Course 1-2. W1101x. Section 1: Professor Benedict. M W F 11-12:15. Section 2: Instructor to be announced. M W F 6:10-7:25. Section 3: Professor Wertis. M W F 2:10-3:25. W1102y. Section 1: Professor Wertis. M W F 11-12:15. Section 2: Professor Solodow. M W F 6:10-7:25. W1101y. Instructor to be announced. M W F 6:10-7:25. W1102x. Professor Benedict. M W F 1:10-2:25.

- §3. **Cicero: Selections.** [2]
Prerequisite: Course 1-2, or two or three years of high school Latin. Professor Bacon. M W F 10.
- §W1201y. **Cicero.**
Equivalent to Course 3. Professor Benedict. M W 11-12:15.
- §4. **Vergil: Selections from the Aeneid.** [2]
Prerequisite: Course 3, or two or three years of high school Latin. Professor Bacon. M W F 10.
- §W1202x or y. **Vergil.**
Equivalent to Course 4. W1202x. Professor Porter. M W F 1:10.
W1202y. Professor Commager. M W 2:10-3:25.
- §V3012x. **Lyric Poetry.**
Selections from Catullus and Horace. Prerequisite: Course 4, or four years of high school Latin. Professors Commager and Sheffield. Section I M W 3:10-4:25. Section II M W F 1:10.
- §V3011y. **Myth and Pastoral.**
Selections from Livy; Vergil's *Eclogues*. Prerequisite: Course V3012x, or four years of high school Latin. Professor Wertis. M W F 1:10.
- §33y. **Medieval Literature.** [5]
A survey of representative late Latin and Medieval texts; readings from the Church Fathers, sacred and secular lyric, history, romance, satire, and biography. Practice in paleography. Prerequisite: Permission of the instructor. Professor Lenaghan. M W 2:10-3:25.
- [§V3305x. **Historians.** Professor Benedict. Not given in 1973-74.]
- [§V3306y. **Satire.** Not given in 1973-74.]
- §V3307x. **Elegiac Poetry.**
Selections from Tibullus, Propertius, and Ovid. Prerequisite: Course V3011 and V3012, or their equivalents. Given alternately with Latin V3305. Professor Commager. Tu Th 3:10-4:25.
- §V3308y. **Philosophy.**
Selections from Lucretius: attention to the Hellenistic background of Roman philosophy and to the philosophic writings of Cicero and Seneca. Prerequisite: Course V3011 and V3012, or their equivalents. Given alternately with Latin V3306. Professor Benedict. M W F 10.
- §V3309x. **Selections from Latin Literature, I.**
Since the content of this course changes each year, it may be taken for credit in consecutive years.
Form and meaning of Roman comedy; plot, character, and comic techniques in Plautus' *Aulularia*, and in Terence's *Eunuchus* and *Adelphoe*. Prerequisite: Course V3011 and V3012, or their equivalents. Professor Ludwig. Tu Th 11-12:15.
- §V3310y. **Selections from Latin Literature, II.**
Since the content of this course changes each year, it may be taken for credit in consecutive years.
Problems in the career and dictatorship of Julius Caesar. Readings from Caesar, Cicero and his correspondents, Sallust, and Suetonius. Prerequisite: Course V3011 and V3012, or their equivalents. Professor Lenaghan. M W F 1:10.
- [V1109x-V1110y. **Prose Composition, I.** Not given in 1973-74.]

V3319y. Prose Composition, II.

The writing of sentences and connected passages in Latin.

Prerequisite: at least four terms, or the equivalent, of Latin. Professor Solodow. Tu 3:10-5.

[V3320y. Prose Composition, II. Not given in 1973-74.]**V3997x or y. Directed Reading.**

To be tested by a series of short papers, one long paper, or an oral or written examination. Prerequisite: permission of the chairman of the department. Members of the Barnard and Columbia Departments. Hours to be arranged.

V3998x or y. Supervised Research in Latin Literature.

A program of research in Latin literature, with the composition of a paper embodying results. Prerequisite: permission of the chairman of the department. Members of the Barnard and Columbia Departments. Hours to be arranged.

§G4105x-G4106y. History of Latin Literature.

Lectures based on extensive readings in Latin literature from the beginning to the fourth century A.D. Prerequisite: at least two terms beyond Courses V3011, V3012. G4105x, Professor Commager. M W 1:10-2, and a third hour to be arranged. G4106y, Professor Ludwig. Th 2:10-5.

Greek-Latin Comparative Readings in Greek and Latin Literature. [0]

61y, 62x

Greek and Roman writers examined and compared through a study of selected genres. Students proficient in only one language may read authors of the other language in translation. Oral reports, short paper, final examination. Open to juniors and seniors with permission of the instructor. 62x, Autumn Term: didactic poetry, lyric, drama. Professor Bacon. Tu 1:10-3, and a third hour to be arranged. 61y, Spring Term: epic, historiography, oratory. Professor Sheffield. Tu 1:10-3, and a third hour to be arranged.

Graduate Courses

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

**Modern Greek
Language
and Literature****1-2. Elementary Full-Year Course. [13]**

Course 1: basic grammar and syntax; practice in speaking, reading, and writing. Course 2: more advanced grammar and syntax; reading of simple texts, such as D. Solomos, *He hemera tes Lampres*; practice in speaking and writing. Dr. Christides. Tu Th 4:10-5:25.

3. Modern Greek Literature, I. [9]

Representative prose and verse from the 18th century to the present. Speaking and writing of more complex and idiomatic Greek. Dr. Christides. Tu Th 2:30-4.

4. Modern Greek Literature, II. [9]

Reading and discussion of selected literary texts, such as epic Akritic folksongs, poems of K. P. Cavafy, *Asketike* of N. Kazantzakis. Advanced work in speaking and writing. Dr. Christides. Tu Th 2:30-4.

<i>Professors</i>	Annette K. Baxter, Patricia Albjerg Graham (Education), Stephen E. Koss, Maristella Lorch (Italian), Basil Rauch, Chilton Williamson (Chairman; 419 Lehman)
<i>Associate Professor</i>	Suzanne F. Wemple
<i>Assistant Professors</i>	Ann Fagan, Daniel Field, Darline G. Levy, Robert McCaughey, John Snook (Religion)
<i>Lecturers</i>	Patricia H. Labalme, Sister Mary Elizabeth
Other officers of the University offering courses listed below:	
<i>Professors</i>	Zvi Ankori, J. M. W. Bean, Istvan Deak, D. M. Dunlop, Nina G. Garsoian, Henry F. Graff, Tibor Halasi-Kun, Nathan L. Huggins, Graham W. Irwin, Herbert S. Klein, Walter P. Metzger, John H. Mundy, Marc Raeff, Eugene F. Rice, David J. Rothman, James P. Shenton, Jacob W. Smit, Morton Smith, Fritz Stern, Alden T. Vaughan, Ehsan Yar-Shater
<i>Visiting Professor</i>	Morton Rosenstock
<i>Associate Professors</i>	Eric Foner, William V. Harris, Kenneth Jackson, William R. Roff, H. Paul Varley
<i>Adjunct Associate Professor</i>	Arthur Hertzberg
<i>Assistant Professors</i>	Sheila Biddle, Leonard Gordon, Andrzej Kaminski, Daniel Leab, Vojtech Mastny, Curtis Noel, Walter Ofonagoro, Nunzio Pernicone, John D. Schmidt, Robert Somerville, Karen Spalding, John A. Toews, Marcia Wright
<i>Instructor</i>	Geoffrey Field
<i>Special Lecturer</i>	Rihcard B. Morris

History, as knowledge of the past, touches all aspects of human experience. Historians' accounts of the past form a branch of literature in which factual statements can be verified in primary sources. History should be studied to improve understanding of man in society — his failures and his achievements — and to acquire a sense of the relevance of the past to the present.

Students who intend to major in history are urged to consult an adviser in the department at the beginning of the sophomore year in order to plan their academic programs for the remaining three years in college.

The requirements for a major in history are a minimum of eleven courses distributed as follows:

1. At least six courses in an area of concentration. Two of the six courses must be the senior research seminar in which the student will write a senior essay. While history majors usually

concentrate on European or American history, they may, upon approval of the chairman, concentrate in any field of particular interest, such as ancient, medieval, Jewish, Oriental, African, cultural, or urban history.

2. At least three history courses outside the field of concentration.

3. At least two seminars, one of which may be an Introductory Seminar.

Note: Two courses of the eleven may be taken in other departments provided that such courses are closely related to the student's field of concentration, and provided that she obtains the written permission of her major adviser.

No special permission is necessary for Barnard College students to register for lecture courses listed in this catalogue. Full course descriptions of Columbia College courses will be found in the Columbia College catalogue. Written permission of the instructor is required for those wishing admittance to all seminars. Meeting arrangements and structure of each seminar will be announced by the instructor at the beginning of the course.

Columbia College students may not register for Barnard Introductory or Senior Research Seminars.

Certain graduate courses, "G" courses, given at Columbia University are open to qualified majors with the consent of the Chairman of the Barnard Department and of the instructor. A description of these courses will be found in the Bulletin of the Graduate School of Arts and Sciences.



Lectures Ancient, Medieval and Modern European History

- §W1001x-W1002y. The Beginning of History and the Bronze Age.**
Professor Schmidt. M W 7:10-8:35.
- §W1005x. 1200 B.C. to 336 B.C.** Professor Smith. Tu Th 6:30-7:45.
- §W1006y. The Ancient World from Alexander to Theodosius.**
Professor Harris. M W 4:10-5.
- W4006x-W4007y. Introduction to the Study of Ancient Egypt.**
Professor Schmidt. M 10-11:50.
- W4008y. Topics in Greek and Roman Intellectual History.**
Professor Smith. Tu Th 6:30-7:45 p.m.
- W4010x. Roman Imperialism.** Professor Harris. W 4:10-6.
- W4509x. History of Ancient Israel.**
Professor Ankori. W 4:10-6.
- W4660y. Topics in the Social History of Medicine and Health Care.**
Professor Fruchtbaum. W 11-12:50.
- §3. The Early Middle Ages: from 300 to 1050. [7]**
The fusion of Graeco-Roman, Judeo-Christian, and Germanic traditions, and the emergence of Europe as a cultural unit.
Professor Wemple. Tu Th 10:35-11:50.
- §4. The High Middle Ages: from 1050 to 1450. [7]**
The social environment, political institutions, church history, thought and science, from the Gregorian Revolution to the Renaissance.
Professor Wemple. Tu Th 10:35-11:50.
- [5. The Roots of the Modern World: Western Europe. 1230-1494.**
Professor Wemple. Not given in 1973-74.]
- W4293y. English Constitutional History, 800-1450.**
Prerequisite: junior standing or permission of the instructor.
Professor Bean. Tu Th 11-12:15.
- W4263x-W4264y. Medieval Church History.** Professor Somerville. Tu Th 10.
- W4203x. The Medieval Town.** Professor Mundy. W 6:10-7:50.
- W4204y. Political and Ecclesiological Thought, 1100-1350.**
Professor Mundy. W 6:10-8 p.m.
- §History-Italian W3197x. Dante's World.**
The historical background of Dante's political, theological, and ethical thought, and a literary analysis of its poetical rendering. An additional weekly hour of reading the *Divine Comedy* to be arranged. Professors Lorch and Wemple. W 10-11:50.
- [§History-Italian V3199x. Petrarch's World.**
Professors Lorch and Wemple. Not given in 1973-74.]
- W4453x-W4454y. Byzantine History, 330-1453.** Professor Garsoian. W 2:10-4.
- W4505y. Jewry and Judaism in the Orbit of Islam.**
Professor Ankori. W 4:10-6.

- 11. Main Currents of the Modern European World: Renaissance to the French Revolution.** [9]
The forces — cultural, social, political, economic — which established modern Europe and brought it into contact with the rest of the world. Professor Fagan. Tu Th 2:10-3:25.
- 12. Main Currents of the Modern European World: Waterloo to Today.** [9]
Nineteenth-century industrial revolutions, romanticism, liberalism, nationalism, socialism, and imperialism; and twentieth-century wars, revolutions, dictatorships, and aspirations. Professor Fagan. Tu Th 2:10-3:25.
- [§13. The Italian Renaissance**
Dr. Labalme. Not given in 1973-74.]
- §14. The Reformation in Europe in the 16th Century.** [6]
The great reformers and religious changes: Luther, Calvin, Zwingli, the Anabaptists, Tudor reforms, and the Catholic Reformation. Dr. Labalme. Tu Th 9:10-10:25.
- §15. The History of Venice to the 18th Century.** [6]
A survey of the Venetian empire's growth, society, civilization, and mystique in its unique development and in its European context from the fifth century to its destruction by Napoleon. Dr. Labalme. Tu Th 9:10-10:25.
- W4162x. Economic Development of Pre-industrial Europe.**
Professor Smit. Tu 2:10-4.
- W4163y. Colonial Expansion in the 17th Century.**
Professor Smit. Tu 2:10-4.
- §21. England under the Tudors and Stuarts: 1485 to 1714.** [9]
England's national monarchy from its establishment through its evolution by parliamentary agitation and civil war. Special attention will be given to the effects of religious thought on political developments. Professor Koss. Tu Th 2:10-3:25.
- §22. Modern Britain: 1714 to Today.** [9]
The transformation from squirearchy to meritocracy, with an emphasis on the rise of industrialism, its effects on Britain's domestic and international situations, and the development of the welfare state. Professor Koss. Tu Th 2:10-3:25.
- W4510x. History of Zionism.**
Professor Hertzberg. W 10-11:50.
- §W3203x. The Old Regime and the Enlightenment, 1660-1789.**
Professor Biddle. Tu Th 11-12:15.
- §C3947y. The Role of London in English Politics and Society, 1600-1800.**
Professor Biddle. Th 2:10-4.
- §25. The Establishment and Downfall of the French Monarchy: 1515-1789.** [7]
The cultural, intellectual, political, social, and economic development that brought into existence the monarchy of Louis XIV and led to its collapse. Professor Levy. Tu Th 10:35-11:50.

- §26. France in Turmoil: 1789 to Today.** [7]
The cultural, intellectual, political, social, and economic developments that have kept France in turmoil from the French Revolution to Charles de Gaulle. Professor Levy. Tu Th 10:35-11:50.
- §W3204y. The Age of Revolutions, 1789-1870.**
Professor Deak. M W 4:10.
- §35. European Intellectual History: 1600-1789.** [9]
Social, political, economic, religious, and scientific thought and the arts in Europe from the post-Reformation period through the Age of the Enlightenment. Professor Levy. Tu Th 2:10-3:25.
- §W3205x-W3206y. The Political Culture of Europe Since 1870.**
Autumn Term: Professor Mastny. M W 4:10-5:25. Spring Term: Professor Stern. Tu Th 2:10-3:25.
- §19. European Diplomacy: 1914-1939.** [7]
The origins and impact of the First World War; the "new diplomacy" and the peace settlements; the emergence of new political systems; attempts to attain stability in the twenties; the collapse of the thirties. Professor Fagan. Tu Th 10:35-11:50.
- §20. The Second World War and the Recovery of Europe: 1939 to Today.** [7]
The Second World War and its legacy; the United Nations; rival groups and the Cold War; the new place of Europe in the world. Professor Fagan. Tu Th 10:35-11:50.
- §27. History of Russia from the Time of Troubles to the Era of Reforms.** [7]
Political, economic, and social history from the beginning of the seventeenth century to the middle of the nineteenth century. Professor D. Field. Tu Th 10:35-11:50.
- §28. History of Russia from the Era of Reforms to the Death of Stalin.** [7]
Political, economic, and social history from the middle of the nineteenth century to the middle of the twentieth century, with special emphasis on the revolutions of 1917. Professor D. Field. Tu Th 10:35-11:50.
- [§29. The Culture of Pre-Petrine Russia.**
Professor D. Field. Not given in 1973-74.]
- W4328y. The British Empire and Commonwealth, from 1783 to the Present.** Professor Williamson. M W 11.
- §45. The Life and Lifetime of Sir Winston Churchill.** [0]
Events in English and world history from 1874 to 1965, reflected in the writings, experiences, and career of the statesman whose lifetime and controversies spanned nine decades. Professor Koss. Th 4:10-6.
- W4159x-W4160y. European Intellectual History, 1750-1890.**
Professor Toews. M W 11-12:15.

- W4427x-W4428y. History of the Hapsburg Monarchy: 1683-1918.**
Professor Deak. M W 2:10-3.
- W4426y. History of Poland-Lithuania.**
Professor Kaminski. F 10-11:50.
- W4189x. History of Spain.**
Professor Noel. M W F 2:10-3.
- Seminars Ancient, Medieval, and Modern European History**
- [§7y. Revival and Survival of Rome.**
Professor Wemple. Not given in 1973-74.]
- §W3575x-W3576y. Israelite, Jewish, and Christian Historiography.**
Professor Smith. Tu 4:10-6.
- §C3959x. Lord and Peasant in England, 1215-1688.**
Professor Bean. Tu 2:10-4.
- §6. The History of Women in the Late Roman Empire and the Middle Ages. [0]**
The origins of the legal and social position of women in medieval society as reflected in patristic writings, Roman and Germanic codes. The contributions of women in the high and late Middle Ages to feudal and urban society, courtly love, monasticism, mysticism, medicine, and literature, studied through primary and secondary sources. Professor Wemple. Tu 3:35-5:25.
- §W3851x. Woman as Intellectual in Modern Europe.**
Professor Toews. M 3:10-5.
- [§16. The Renaissance in Northern Europe and Spain.**
Dr. Labalme. Not given in 1973-74.]
- §37. The European Enlightenment. [0]**
The intellectual origins of the Enlightenment; Enlightenment ideas in their social and intellectual setting; the influence of the Enlightenment on the French Revolution. Professor Levy. W 2:10-4.
- §W3981x-W3982y. Society, Politics and Ideas of the Old Regime.**
Professor Noel. Th 4:10-6.
- §36. European Intellectual Developments, 1789-1870. [0]**
French revolutionary ideology; conservatism, romanticism, liberalism, utopian socialism, Hegelian idealism, Marxism, positivism, Darwinism, naturalism. Professor Levy. Tu 2:10-4.
- [§48. Modern Imperialism: Myth and Reality.**
Professor Williamson. Not given in 1973-74.]
- §C3957y. The Cultural Context of European Fascism.**
Professor Stern. Tu 4:10-6.
- §30. Russian Radicalism and its Antagonists. [0]**
Social and political thought from the eighteenth century to the 1920's; the enlightenment in Russia; the Decembrist movement; the slavophiles and later nationalists; the "westerners" and their successors; the development of Russian Marxism. Special emphasis on pre-Marxist radicalism (narodnichestvo). Professor D. Field. Tu 3:35-5:25.

§31. Serfdom in Russia and Slavery in the United States. [0]

A comparative inquiry into the social and economic character of bondage in the nineteenth century, with some attention to the impact of slavery and serfdom on politics and literature. Professor D. Field. Tu 3:35-5:25.

§44. Origins and Rise of Fascism. [0]

The varieties of fascist ideology, parties and regimes in Europe between the World Wars. Professor Fagan. W 2:10-4.

§W3855x-W3856y. Renaissance, Reformation, and Absolutism in Eastern Europe.
Professors Raeff and Kaminski. Th 10-11:50.

[§46x. Europe in the Age of Tyrannies: 1914-1945.

Professor Koss. Not given in 1973-74.]

§47. Towards Munich and War: British Policy in the Thirties. [0]

The development of British policy towards Hitler's Germany with emphasis upon the domestic, European, and global factors that influenced British decisions. Professor Fagan. W 2:10-4.

[§33. The Great Historians.

Professors Wemple and Koss. Not given in 1973-74.]

Lectures United States History

§W1109x. Main Currents in American History, 1492-1865.

Professor Chambers. Tu Th 6:10-7:25.

§W1110y. Main Currents in American History Since 1865.

Professor Chambers. Tu Th 6:10-7:25.

§W3137x-W3138y. The United States, 1877-1945.

Instructor to be announced. Tu Th 11-12:15.

§51. Survey of American Civilization to the Civil War. [2]

The major theological and organizational concerns of seventeenth-century English colonists; the political and ideological process of defining an American; the social and economic forces that helped shape a distinctive identity; the inherent pressures that culminated in the nation's violent disruption in 1861. Professor McCaughey. M W F 10.

§52. Survey of American Civilization Since the Civil War. [2]

The major intellectual and social accommodations made by Americans to industrialization and urbanization; patterns of political and economic thought from Reconstruction to the New Deal; selected topics on post-World War Two developments. Professor McCaughey. M W F 10.

§53. American Colonial History. [7]

A study of continuity and change in the major institutions of American society from 1607 to 1783. Professor Williamson. Tu Th 10:35-11:50.

- §54. American Revolutionary History. [7]**
Why and how the American people made a revolution, waged a war and climaxed their victories with the Federal Constitution. Professor Williamson. Tu Th 10:35-11:50.
- [§72. American Urban History.**
Professor McCaughey. Not given in 1973-74.]
- W4673x-W4674y. American Urban History. Professor Jackson. M W 9:30-10:45.**
- §84. American Intellectual History: 1865-1918. [7]**
An examination of the major intellectual trends in the United States between Appomattox and World War One, including Darwinism, mugwumpery, the emergence of the American university, cataclysmic thought in the '90's, the Progressive temper, the crisis of the Pragmatists in 1917. Professor McCaughey. Tu Th 10:35-11:50.
- W4675x-W4676y. Ethnic and Racial Minorities in American History.**
Professor Shenton. Tu Th 2:10-3:25.
- §W3121x-W3122y. The United States in the Nineteenth Century: 1815-1877.**
Professor Foner. Tu Th 11-12:15.
- W4515x. History of Jews in America.**
Professor Rosenstock. Tu 3:10-5.
- W4681x-W4682y. American Legal and Constitutional History.**
Professor Morris. M 11-12:50.
- W4742x-W4743y. American Labor History.**
Professor Leab. Tu Th 11-12:15.
- W4730y. Perspectives on 20th Century United States History.**
Professor Metzger. Th 2:10-4.
- [§57. Origins of Modern America: from Reconstruction to the First World War. Professor McCaughey. Not given in 1973-74.]**
- [§58. Radicalism, Reform, and Reaction in Modern America: 1913 to Today. Professor Rauch. Not given in 1973-74.]**
- §63. Problems in the Teaching of History. [17]**
The selection and organization of content for junior and senior high school history courses; use of primary sources, secondary readings, and other relevant materials; problems of evaluation. Primarily for students in the Education Program; others by written permission of the instructor. Sister Mary Elizabeth. M 4:10-6.
- §64. (Religion 64.) The History of Religion in America. [6]**
Religious thought and institutions from colonial times to the present; their influence on American political and social history through the work of representative individuals. Professor Snook. Tu Th 9:10-10:25.
- §65. History of Education in the United States. [5]**
The development of American education in the context of social and intellectual history. Professor Graham. M 2:10-4.

W4697x-W4698y. Main Directions in the Foreign Relations of the United States.
Professor Graff. W 4:10-6.

[§59. **The Classical Age of American Diplomacy: 1775-1823.**
Professor Rauch. Not given in 1973-74.]

[§60. **American Diplomacy and Power: 1823 to Today.**
Not given in 1973-74.]

Seminars United States History

§W3779y. Colonial America.
Selected topics in early American history including motives for English colonization, Puritanism and other religious phenomena, economic growth, political and social institutions, and the emergence of American slavery. Professor Vaughan. Tu 2:10-4.

§55. Jacksonian America. [0]
An examination of the nature and significance of the period in the light of its historical and historiographical complexities. Professor Williamson. Tu 3:35-5:25.

§80. Anglo-American Perceptions. [0]
An investigation of trans-Atlantic influences, using both English and American primary sources. Among the topics to be considered are: 17th century Puritanism; varieties of Whiggery and Radicalism; movements for democratic and social reform; the imperial experience; 20th-century cultural connections and Alliance politics. Colloquium. Professors Koss and McCaughey. Th 3:35-5:25.

§C3946y. Patterns of Urban and Suburban Growth in the United States, 1825-1950.
Professor Jackson. W 2:10-4.

§81. History of Women in America to 1890. [0]
An examination of important historical and literary sources for the study of American women from colonial times to 1890. Professor Baxter. Tu 2:10-4.

§82. History of Women in America since 1890. [0]
An examination of important historical and literary sources for the study of American women from 1890 to today. Professor Baxter. Tu 2:10-4.

§66. History of Women in Academe. [0]
A study of the experiences of American women in higher education: the acceptance of women into colleges and universities; the movement for coeducation; the recent efforts to achieve greater opportunities for women in academe; comparisons with European educational practice. Prerequisite: Permission of the instructor. Professor Graham. M 2:10-4.

§W3905y. American Jewish History.
Professor Rosenstock. Tu 3:10-5.

§W3829x-W3830y. Topics in Afro-American History, 1619-1960.
Professor Huggins. Tu 10-11:50.

§W3895x. United States History from the Gilded Age to the Great Depression.

Instructor to be announced. M 2:10-4.

[§74. Critics of Modern America: 1865 to Today.

Professor Baxter. Not given in 1973-74.]

§C3923x-C3924y. The Civil War and Reconstruction, 1840-1877.

Professor Shenton. Tu 4:10-6.

§75. Franklin D. Roosevelt and the New Deal. [0]

The domestic policies of President F. D. Roosevelt considered as the crucial stage in the formation of the modern American state.

Professor Rauch. W 2:10-4.

§76. Franklin D. Roosevelt and Foreign Affairs. [0]

The foreign policies of President F. D. Roosevelt considered as the crucial stage in the formation of America's position in the world today. Professor Rauch. W 2:10-4.

§W3903x-W3904y. The American Presidency.

Professor Graff. W 10-11:50.

§W3898y. Twentieth-century American History; the 1950's.

Readings and research on social, economic, and political developments in the United States from the election of Eisenhower to the New Frontier. Prerequisite: W1109 and W1110, or the equivalent, and permission of the instructor. Professor Leab. W 2:10-4.

[§61. American Historiography.

Professor Williamson. Not given in 1973-74.]

§67. United States Relations with East Asia, 1785-1953. [0]

Early American contacts with Asian civilizations; Perry's opening of Japan; traders, missionaries and Marines in China; the strategic way-stations of Hawaii, Samoa, Guam, Midway, and the Philippines; the "Open-Door" in China; rivalry and war with Japan; the "special relations" with China; the Korean War. Professor Rauch.

Th 10-11:50.

§68. The United States and the Vietnam War: 1945 to Today. [0]

The Indochina policy of President Roosevelt; President Truman's decision to support the French return; President Eisenhower, Secretary Dulles and the Geneva Agreements of 1954; President Kennedy and counter-insurgency; President Johnson and escalation; the crises of 1968; President Nixon and Vietnamization; the impact of the War on the Vietnamese and the American people and society. Primarily for freshmen and sophomores. Professor Rauch.

Th 10-11:50.

§71. American Colleges in Crisis. [0]

The English college model and the American colonial context; the ante-bellum college and the egalitarian imperative; the emergent university as refuge and catalyst; the embattled multiversity and the contemporary predicament. Professor McCaughey. Th 3:35-5:25.

§W3899x. Film and History: The Blacks in the United States.

Professor Leab. W 2:10-4.

§C3925x. Topics in American Radical History.

Professor Foner. W 2:10-4.

Lectures Latin American and Non-Western History**Oriental****Civilizations****V3355x-V3356y.****Introduction to the History and Culture of Oriental Societies.**

For complete entry see Oriental Studies.

W4825x-W4826y.**History of Modern India and Pakistan.**

Professors Gordon and Embree. Tu 2:10-4.

W4851x-W4852y.**The Modern History of Southeast Asia.** Professor Roff. Th 2:10-4.**W4471x.****History of the Arabs, 1800-1914.**Prerequisite: Permission of the instructor. Professor Dunlop.
Th 9-10:50.**W4779x-W4780y.****History of Latin American Civilization.**

W4779x, Professor Klein. W4780y, Professor Spalding. Th 2:10-4.

Afro-American**Civilization****§W3001x-W3002y.****Introduction to the History and Culture of the Black Man in Africa and the Americas.**W3001x, Professor Irwin. W3002y, Professor Ofonagoro.
Tu Th 1:10-2:25.**§W3127x-W3128y.****History of Africa.** Professor Irwin. M W 11-12:15.**W4905x.****The History of Modern South Africa.**

Professor Wright. Tu Th 9.

W4451x.**The Mediterranean Basin during the First Centuries of Islam, 650-1100.**

Professor Dunlop. M 10-11:50.

W4501x-W4502y.**Armenian History and Civilization, I.**

Professor Garsoian. Tu 2:10-4.

Seminars Latin American and Non-Western History**Oriental****Studies V3507x.****Western Imperialism and Asian Nationalism.**

For complete entry see Oriental Studies.

Oriental**Studies V3508y.****Modernization of China and Japan.**

For complete entry see Oriental Studies.

Introductory and Senior Research**§89.****Introductory Seminars.****[I. Debates among Historians.**

Professor Fagan. Not given in 1973-74.]

§90.**Introductory Seminars.****I. History and Psychoanalysis.**

A study of the problems involved in applying concepts of depth psychology to historical interpretation. Primarily for freshmen and sophomores. Admission by written permission of the instructor. Professor Levy. W 2:10-4.

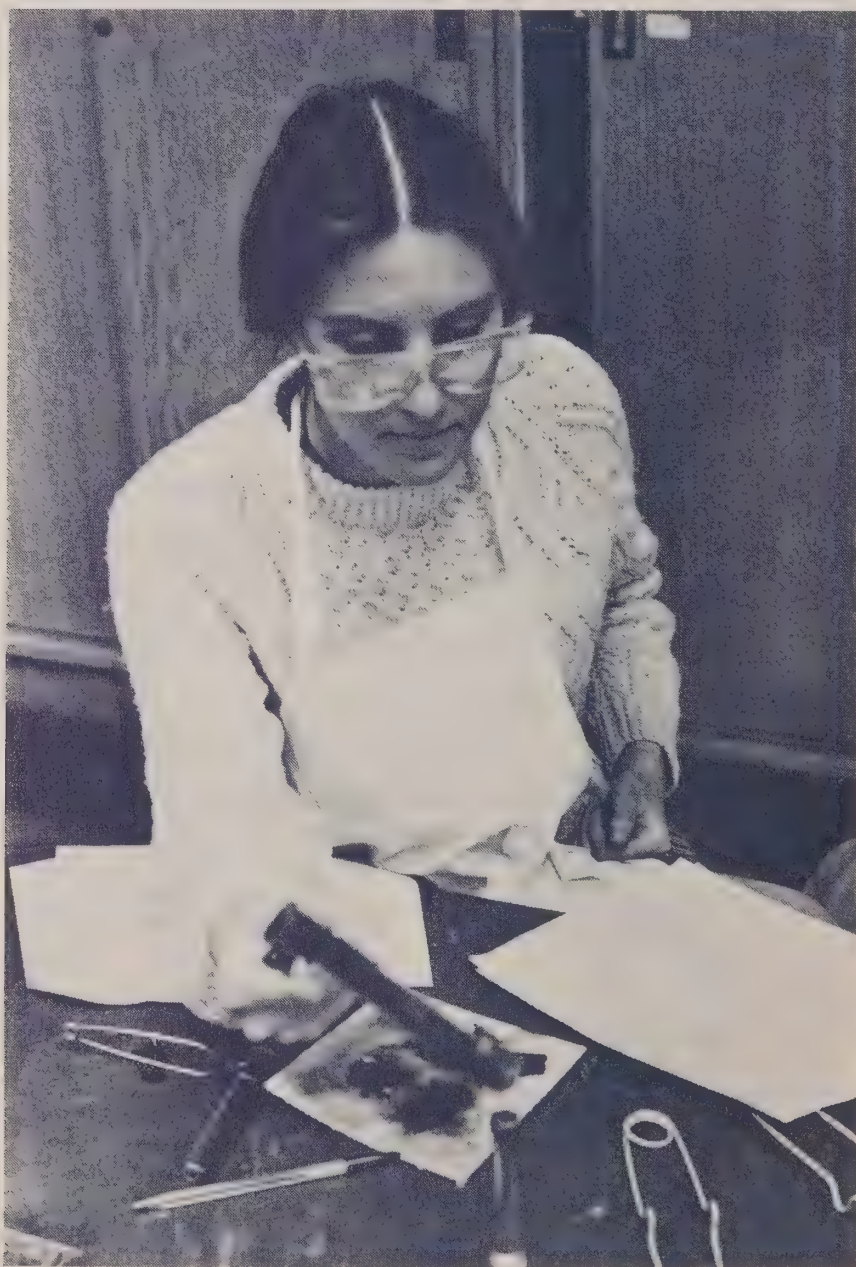
[0]

91-92. Senior Research Seminar in European Civilization. [0]

Students will conduct individual research, in consultation with the instructor, on subjects in European thought and society of particular interest to themselves. The results of each project will be presented in seminar discussion in the form of the Senior Essay. Open to senior majors; others by written permission of the instructor. Professor Wemple. W 4:10-6.

93-94. Senior Research Seminar in American Civilization. [0]

Individual research on diverse aspects of American history and presentation of results in seminar discussion in the form of the Senior Essay. Open to senior majors; others by written permission of the instructor. Professor Rauch. Th 4:10-6.



Professor Maristella de Panizza Lorch (Chairman; 206 Milbank)
Instructor Maria Grazia DiPaolo

Other officers of the University offering courses listed below:

Professors John C. Nelson, Olga Ragusa, Luciano Rebay
Instructors Pellegrino D'Acierno

A major in Italian is expected to attain (a) sufficient knowledge of the language to enable her to read, write and speak it, (b) a fundamental acquaintance with Italian literature, (c) ability to understand and interpret literary texts in Italian.

Courses: A minimum of ten courses, exclusive of language courses, to be planned as early as possible in consultation with the department; Course V3993x-V3994y.

Allied subjects: In consultation with their major adviser students should select courses in other languages and literatures, music, art history, philosophy, and religion.

The major examination consists of four hours of written work and an oral examination.

Foreign Language Requirement for the Degrees: All new students who intend to satisfy the foreign language requirement in Italian must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken Italian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing a full-year literature course, given in Italian, or Course V3441x with a minimum grade of B+.

Casa Italiana: The Casa Italiana, located on Amsterdam Avenue at 117th Street, is open to all students interested in Italian culture and literature. A program of films, lectures, concerts, plays, poetry recitations, and informal gatherings is organized to meet the students' needs. Professor Lorch is Chairman of the Executive Committee.

Language Courses

V1101x-V1102y. Elementary Full-Year Course.

An integral course for beginners with intensive oral-aural drill. Reading, translation, conversation. May not be taken simultaneously with elementary Spanish. No credit is given for Course V1101x until Course V1102y has been completed. Work in the language laboratory for one hour weekly is optional. Section I Miss Salomone. M Tu W Th 9. Section II Instructor to be announced. M Tu W Th 11. Section III Instructor to be announced. M Tu W Th 12.

V1201x-V1202y. Intermediate Course.

A review of the essentials of grammar; intensive and extensive reading, particularly from contemporary authors; translation, composition, and practice in conversation. Prerequisite: Course V1101x-V1102y or the equivalent. Section I Miss DiPaolo. M Tu W Th 10. Section II Instructor to be announced. M Tu W Th 12.

V1301x-V1302y. Comprehensive Elementary and Intermediate Course.

For linguistically gifted students who wish to acquire by intensive study the reading skill necessary to interpret Italian literary texts. Prerequisite: Permission of the instructor. Section I Miss DiPaolo. M W F 11-12:15. Section II Miss Salomone. M W F 4:10-5:25.

With the permission of the chairman of the department, this course may be applied toward the fulfillment of the language requirement, provided it is followed by a one-year course in Italian literature.

V3113x-V3114y. Introduction to the Reading and Analysis of Italian Literature.

Open primarily to graduate students in other departments as a cognate course to their field of specialization. Qualified juniors and seniors may be admitted with permission of the instructor. A previous knowledge of Italian is not required.

V3113x. The basic structure of the language, with emphasis on building vocabulary through progressively difficult readings.

V3114y. Reading and analysis of selected classics of Italian literature by such authors as Dante, Petrarca, Boccaccio, Machiavelli, Manzoni, Verga, and Pirandello. Mr. D'Acerno and associate. M W 4:10-5:25.

**Literature
Courses in Italian**

For nonmajors, courses marked thus § will count toward the general college requirement. All courses are conducted in Italian.

[§V3335x-V3336y. Italian Written and Oral Style. Not given in 1973-74.]**§V3449x-V3450y. Modern Italian Literature.**

Nineteenth and twentieth century prose and poetry. Lectures; oral and written reports. V3449x. Miss DiPaolo. V3450y. Mr. D'Acerno. Tu Th 4:10-5:25.

§V3993x-V3994y. Seminar in Italian Literature.

Guidance in research and writing of a critical essay. Required of majors. Open to other qualified students with permission of the Chairman. Professors Lorch, Nelson, Ragusa and Rebay. Hours to be arranged.

**Courses Given
in English**

Majors are required to attend an additional seminar hour conducted in Italian in those courses so indicated below.

[V1122y. Studies in the Italian Renaissance.

Professor Lorch. Not given in 1973-74.]

[V1134y. Studies in Medieval Romance Literature.

Professor Nelson. Not given in 1973-74.]

**History-
Italian W3197x.****Dante's World.**

The historical background of Dante's political, theological, and ethical thought and a literary analysis of its poetical rendering. Professors Lorch and Wemple. W 10-12. Students with a knowledge

of Italian are required to attend an additional hour and a half of reading and analysis of the Italian text. Professor Lorch.
W 8:30-10 p.m.

[V3198y. **Boccaccio.** Not given in 1973-74.]

[History- **Petrarch's World.**

Italian V3199x. Professors Lorch and Wemple. Not given in 1973-74.]

V3221-V3222. **Machiavelli, Castiglione, Ariosto, and Tasso.**

V3221: An analysis of Machiavelli's *Prince*, *Mandragola*, *Discourses*, and other writings followed by a briefer analysis of Castiglione's *Book of the Courtier*. V3222: Analysis of Ariosto's *Orlando Furioso* and Tasso's *Aminta* and *Jerusalem Freed*. Professor Nelson.
Tu 1:10-3. Additional hour to be arranged (one for students proficient in Italian, and one for students who are not).

[V3642y. **Studies in Contemporary Italian Arts: Italian Film.**

Professor Lorch. Not given in 1973-74.]

English- **Artistic Theory in the Renaissance.**

Italian C3358y.

An examination of a selected number of texts (in translation) on artistic theory — Alberti, Vassari, Leonardo, among others — and consideration of their importance to the history of art and literary criticism, with special attention to the critical terminology used. Professor Selig. M W 11-12:30.

Graduate Courses

Certain graduate courses given in the University are open to qualified majors with the consent of the chairman of the department. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



Associate Professor Joseph L. Malone (Chairman; 412A Milbank Hall)
Assistant Professor Lars-Alvar Jacobson

Other officers of the University offering courses listed below:

Professor William Diver
Assistant Professors Alan Castleman, Michael J. Reddy

The purpose of the study of linguistics is to develop understanding of the nature of language. The major is designed to provide the student with a broad appreciation of the fundamental problems of language analysis, some training in the techniques of linguistic research, as well as insight into the interrelations of linguistics with the other social and communicational sciences, the humanities, and philosophy and mathematics.

Required courses for the major in linguistics are (I) Linguistics V1101, V1102, V3203, V3206, V3901, and either V3301 or V3303, and (II) two courses in linguistics and/or post-intermediate language to be chosen in consultation with the adviser. In addition to these requirements each student must plan with the adviser a program of breadth and specialization studies. The two research papers prepared in association with V3901 and either V3301 or V3303 are jointly equivalent to the Senior Essay.

§V1101x, V1102y. Introduction to Linguistics.

The nature of language. Characteristics of phonological and grammatical systems and of the lexicon. Evolution of language. Role of linguistics in related disciplines. Modern techniques of linguistic analysis. Linguistics V1101x is prerequisite to Linguistics V1102y. Section I Professor Reddy. M W 11-12:15. Section II Professor Jacobson. Tu Th 2:10-3:25. Section III Professor Castleman. Tu Th 7:40-8:55.

§V3203x. Synchronic Linguistics.

Varied approaches to problems in synchronic linguistics, selected to emphasize critical points in linguistic theory. Prerequisite: Linguistics V1101x, V1102y. Professor Malone. Tu Th 9:10-10:25.

§V3206y. Historical Linguistics.

The principles of both historical and comparative linguistics, with some consideration of the role of philology. Prerequisite: Linguistics V1101x, V1102y. Professor Malone. Tu Th 9:10-10:25.

§V3301y. The Structure of a Language.

Illustration of the principles of linguistic theory and analysis by application to the structure of a particular language. Topic for 1973-74: Generative-transformational theory and Modern German. Some knowledge of German is useful. Prerequisite: Linguistics V1101, V1102. Professor Jacobson. W 2:10-4.

§V3303x. Linguistic Analysis.

Detailed examination of a linguistic problem chosen by the instructor. Topic for 1973-74: The interaction of the adjective and article systems in Modern English. Prerequisite: Linguistics V1101, V1102. Professor Diver. Tu Th 2:10-3:25.

V3901y. Seminar in Linguistics.

Supervised research in the student's area of specialization; preparation of a research paper. Prerequisite: the linguistics major, and senior standing. Professors Malone and Jacobson. W 9-10:50.

W4401x. Introduction to Semitic Linguistics.

A typological and evolutionary survey of the Semitic languages in the light of linguistic analysis. Prerequisite: permission of the instructor. Professor Malone. Th 10:35-12:25.

Other Linguistics Courses

For full descriptions, please consult the Columbia College Bulletin.

W4004x. Linguistics and the Verbal Arts. Mr. Austerlitz. M W 11.

W4104y. Theories of Grammar. Mr. Diver. Th 2:10-4.

W4107x. Linguistic Geography. Mr. Herzog. Tu 10-11:50.

W4108x. Principles of Historical Linguistics. Mr. Jacobson. W 2:10-4.

W4201x. Phonetics. Mr. Austerlitz. M W 10.

W4500x-W4501y. Generative Syntax. Instructor to be announced.

W4502y. Generative Phonology. Mr. Malone. Th 10-11:50.

W4801x. Language as Communication: Synchrony. Mr. Diver. W 2:10-4.

W4802y. Language as Communication: Diachrony. Mr. Diver. W 2:10-4.

W4901x. The Learner's Grammar and Language Teaching.
Mr. Juhasz. Th 3:10-4:50.

W4902y. Contrastive Grammar and the Teaching of English.
Mr. Juhasz. Th 3:10-4:50.

Anthropology Sociolinguistics.

V3033x. Mr. Attinasi. Tu Th 1:10-2:25.

Anthropology Ethnolinguistics.

V3034x. Mr. Maxwell. Tu Th 11-12:15.

Anthropology Dialectology in Contemporary Society.

W4160y. Mr. Attinasi. Th 2:10-4.

Psychology Psycholinguistics.

G4129x, G4130y. Mr. Bever. G4129x Tu 4:10-6; G4130y hours to be arranged.

Uralic W4101y. Introduction to the Study of Uralic Languages.

Mr. Austerlitz. Tu 12-1:50.

Uralic Languages (Finnish and Hungarian) Please consult the bulletins of the Graduate School of Arts and Sciences and the School of General Studies.

Yiddish Linguistics and Literature Please consult the Columbia College Bulletin.

<i>Professor</i>	Joan S. Birman (Chairman; 303 Altschul)
<i>Assistant Professor</i>	David Gieseke
<i>Instructor</i>	Ralph Grishman

Other officers of the University offering courses listed below:

<i>Professors</i>	Hyman Bass, Lipman Bers, Samuel Eilenberg, Patrick X. Gallagher, Ellis Kolchin, Masatake Kuranishi, Edgar R. Lorch, Wilfried Schmid
<i>Associate Professor</i>	C. Herbert Clemens
<i>Joseph Fels Ritt</i>	William Abikoff, Anastasia Czerniakiewicz
<i>Assistant Professors</i>	Aroldo G. Kaplan, Linda P. Rothschild, Richard Sharpe, David Tartakoff, John W. Wood

Calculus is offered in three sequences, designated A, B, and C.

Calculus A is intended for students who need calculus primarily for its applications. Calculus B is intended to develop a theoretical understanding of the mathematical concepts.

Calculus C is on a mature level and demands creative imagination and an unusual ability to think abstractly.

In the A and B courses, the lectures are supplemented by recitation periods which meet once a week in small groups.

Assignment to recitation sections are made after the first lecture.

Students may transfer from one division of Calculus to another, with departmental approval.

An advanced placement score of 4 or 5 earns admission to the freshman section of IIIB, and advanced placement credit equivalent to one course, which is increased to two courses upon successful completion in the freshman year of IC-IIC or IIIB-IVB. A score of 3 earns admission to IIIA or IIB. Students who have had a course in differential calculus (but have not had a thorough grounding in integration) may take IIB.

A major in mathematics: Eight courses (exclusive of 7, 8) are required. These must include the following: Calculus I-IV (in the B or C sequence, if possible); W3161x, W3162y, at least two from among 31, 40, W3040x, W3041y. At least six of the required courses should be completed by the junior year.

Graduate courses and courses in allied fields, such as statistics, physics, applied mathematics, history of science, etc., are often taken. Majors planning graduate study are advised to obtain a reading knowledge of two of the three languages: French, German, Russian.

The major examination, in the senior year, consists of the Undergraduate Record Examination.

§7¹, 8¹. Mathematical Analysis. [2]

Designed to give the student who intends to take only one year of college mathematics as broad a view as possible of the nature of mathematics. Autumn Term: Trigonometry and algebra. Spring Term: Topics in analytic geometry, differential and integral calculus. This course is primarily for those who do not plan to major in mathematics or a physical science. Course 7 is prerequisite to Course 8. Professor Wood. M W F 10.

¹ Courses may not be counted toward a major in mathematics.

§C1101x, C1102y. Calculus IA and IIA.

Functions. Limits. Derivatives. Examples. Applications (motion, curve tracing, maxima and minima.) Mean value theorem. Integrals. Integration by parts and substitution. Applications (area, volume, length, work, energy). Elementary transcendental functions. Applications (radioactive decay, vibrations). Taylor's theorem with remainder. Prerequisite: trigonometry. Professors Clemens, Rothschild, Sharpe, and instructor to be announced. M W F 11. Recitation sections: Tu or Th, 8 or 12.

§C1103x, C1104y. Calculus IB and IIB.

The same material as Course IA, IIA, with greater emphasis on the understanding of the mathematical concepts and the logical structure. Professor Tartakoff and instructor to be announced. M W F 11. Recitation sections: Tu or Th, 8 or 12.

§C1104x, C1203y. Calculus IIB and IIIB.

Prerequisite: A course in differential calculus. Professor Wood. M W F 11. Recitation Sections: M or W, 8 or 12.

§C1107x, C1108y. Calculus IC and IIC.

The same material as Course IA, IIA. The terminology and style are thoroughly modern. Intended for students who have facility with discussions on an abstract level, or who appear likely to develop such facility early. Admission is by examination, given by the Columbia mathematics department during Freshman Week. Professor Kaplan. M W F 11.

§C1201x, C1202y. Calculus IIIA and IVA.

Vector valued functions. Functions of several variables. Examples. Partial derivatives. Chain rule and the gradient. Multiple integrals. Various coordinates. Line and surface integrals. Vector analysis. Infinite series. Power series. Applications. Prerequisite: Calculus II for IIIA, III for IVA. Professor Kolchin and instructor to be announced. Tu Th 11-12:15. Recitation sections: M or W, 8 or 12.

§C1203x, C1204y. Calculus IIIB and IVB.

The same material as Calculus IIIA, IVA, with greater emphasis on the understanding of the mathematical concepts and the logical structure. Prerequisites: Calculus IIB or the equivalent for IIIB, Calculus IIIB for IVB. Section I. Professor Birman. Tu Th 11-12:15. Recitation sections: M or W, 8 or 12. Section II. Professor Kuranishi. M W F 11. Recitation sections: Tu or Th, 8 or 12 (freshman section).

§C1204x. Calculus IVB.

Prerequisite: Calculus IIIB. Professor Eilenberg. Tu Th 11-12:15. Recitation sections: M or W, 8 or 12.

§C1207x, C1208y. Calculus IIIC and IVC.

The material of Calculus IIIA, IVA, plus additional topics, as time

permits. The terminology and style are thoroughly modern.
Prerequisites: Calculus IIC for IIIC, Calculus IIIC for IVC.
Professor Gallagher. Tu Th 11-12:15.

§31y. Number Theory.

[9]

Congruences, quadratic residues, Gaussian sums. Number-theoretic functions. Distribution of primes. Irrational, algebraic and transcendental numbers. Prerequisite: Calculus II. Professor Birman. Tu Th 2:10-3:25.

[§40. Group Theory.

Not given in 1973-74.]

§65. Introduction to Computer Science.

A first course in the design of algorithms and their implementation on a digital computer. The programming language PL/I. The flow-charting and coding of basic algorithms for numerical and non-numerical applications. Mr. Grishman. M W 4:10-5:25 and one workshop hour to be arranged.

W3005x, W3006y.

Advanced Calculus for Science Majors.

Completion of the basic calculus sequence with the essential groundwork for applications to physics and engineering. Elements of linear algebra. Power series. Taylor expansions. Chain rule. Change of variables in multiple integrals. Line and surface integrals. Green's and Stokes' theorem. Implicit function theorem. Differentiation of series and integrals. Orthogonal expansions: Fourier series, Legendre polynomials, Bessel functions. Complex analysis: Cauchy-Riemann equations, Cauchy theorem, Residue theorem with applications to contour integrations. Prerequisite: Calculus IV. Professor Lorch. Tu Th 1:10-2:25.

§W3007x. Complex Variables.

An elementary course in functions of a complex variable. Complex numbers, analytic functions, Cauchy-Riemann equations. Cauchy integral theorem, Taylor and Laurent series, poles and essential singularities, conformal mapping. Professor Abikoff. M W 1:10-2:25.

W3010x. Fundamental Concepts of Mathematics.

The groundwork on which almost all modern mathematics rests. Sets, mappings, relations, ordered sets, well-ordering, natural numbers, cardinal numbers, ordinal numbers, choice functions, Zorn's lemma, induction, real and complex numbers. Prerequisite: Calculus IV and at least one 3000 course. Professor Rothschild. M W 4:10-5:25.

§W3027x. Differential Equations.
(or W3027y).

Solutions of ordinary differential equations: linear equations with constant coefficients, series solutions at regular and singular points. Boundary value problems. Qualitative theory of nonlinear equations. Selected applications. Prerequisite: Calculus IV or equivalent. Autumn Term: Professor Gieseke. Tu Th 6:10-7:25. Spring Term: Professor Rothschild. M W F 10.

W3028y. Partial Differential Equations.

Introduction to partial differential equations. First-order equations. Linear second-order equations; separation of variables, solution by series expansions. Boundary value problems. Further topics chosen by the instructor. Prerequisite: Course W3027x or equivalent. Professor Gieseke. Tu Th 6:10-7:25.

- W3040x, W3041y. Introduction to Modern Algebra.**
Introduction to groups, rings, fields, with examples. Polynomials, algebraic number fields, the Galois theory and applications. Prerequisite: Calculus IV or consent of instructor. Professor Sharpe. M W 2:40-3:55.
- W3161x, W3162y. Introduction to Modern Analysis.**
The real numbers. Metric spaces. Elements of general topology. Continuous functions. Implicit function theory. Measure and integration. Change of variables in integration. Banach spaces and Hilbert spaces. Bounded operators. Examples and applications. Further topics chosen by the instructor. Prerequisite: Calculus IV or the equivalent. Professor Czerniakiewicz. Tu Th 1:10-2:25.
- §W3202x. Linear Algebra.**
(or W3202y). Vector spaces, linear transformations, matrices, quadratic forms. Prerequisite: Calculus II or the equivalent. Autumn Term: Instructor to be announced. Tu Th 6:10-7:25. Spring Term: Instructor to be announced. Tu Th 10, W 12.
- W3375y. Geometric Topology.**
Elementary combinatorial properties of polyhedra. The fundamental group; elementary homology theory and related invariants. Topology of surfaces and their classification. Prerequisite: Calculus IV and W3040 or the equivalent. Professor Eilenberg. Tu Th 4:10-5:25.
- W3386x. Differential Geometry.**
Local and global differential geometry of submanifolds of Euclidean 3-space. Frenet formulas for curves. Various types of curvatures for curves and surfaces and their relations. The Gauss-Bonnet theorem. Prerequisite: Calculus IV or equivalent. Professor Clemens. Tu Th 4:10-5:25.
- W3951x-W3952y. Undergraduate Seminars in Mathematics.**
The subject matter is announced at the start of registration and is different in each section. Each student prepares talks, to be given to the seminar, under the supervision of a faculty member or senior teaching fellow. Students may receive credit for more than one section and may take the course more than once. Prerequisite: two years of calculus and at least one year of additional mathematics courses, and the permission of the departmental representative. Professor Bass and staff. Hours to be arranged.
- Mathematical Probability.**
Statistics G4105x. Fundamentals; random variables and distribution functions in one or more dimensions; the binomial, normal, and Poisson distributions; combinatorial problems; moments and characteristic functions; stochastic convergence and the law of large numbers; addition of random variables and limit theorems; the chi-square, t, and F distributions. Prerequisite: Calculus IV. M W 5:40-6:55.
- Mathematical Statistical Inference.**
Statistics G4107y. Principles of statistical decision procedures. Point estimation. Unbiased consistent, efficient, and sufficient estimates. Method of maximum likelihood. Testing hypotheses. Normal, binomial, and Poisson distributions. Prerequisite: G4105. M W 5:40-6:55.
- Graduate Courses** Certain graduate courses given in the University are open to qualified majors with the consent of the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

<i>Professor</i>	Hubert Doris ¹
<i>Associate Professor</i>	Patricia Carpenter (Chairman; 703 Dodge Hall)
<i>Assistant Professor</i>	Gordana Lazarevich
<i>Associate in Music</i>	Daniel Paget
<i>Instructor</i>	Peter Schubert
	Other officers of the University offering courses listed below:
<i>Professors</i>	Joel Newman, Ernest H. Sanders, Howard Shanet, Vladimir Ussachevsky
<i>Associate Professors</i>	Chou Wen-Chung, Dieter Christensen, Christoph Wolff
<i>Assistant Professors</i>	George Flynn, Walter Hilse, Joel Sachs, Harvey Sollberger, Piero Weiss
<i>Lecturers</i>	Christopher Hatch, Jacques-Louis Monod
<i>Instructor</i>	Nicolas Roussakis
<i>Preceptors</i>	Eleanor Cory
<i>Assistant</i>	Thomas James
<i>Teaching Staff in</i>	Sheldon Henry, Donald Barra, University Band
<i>Applied Music</i>	Howard Shanet, University Orchestra

¹ Absent on leave, Spring Term.

A major in music is designed to integrate music as an art and a craft within the framework of the liberal arts.

A student intending to major in music should start with Courses V2100x and V3123x as early as possible. Course 1-2, though a prerequisite for more advanced literature courses, is not required of music majors, since they cover the same type of material in greater depth in the courses already required of them.

In general, major programs are planned to include nine courses of advanced work in literature, history, and theory. Courses V2100-V2101, V2300-V2301, V2303, V2305, V3123, V3124, V3125, V3126, V3179-V3180 and V3373-V3374 are required. (Course V3239x-V3240y is required of students intending to specialize in composition.) Applied music (a maximum of one course) may be counted toward the degree but is not required.

Other fields: A reading knowledge of German, Italian, or French is required. Students planning to do graduate work in musicology, or ethnomusicology, must know at least two foreign languages, including German and French. Courses in art history, history, philosophy, literature, and foreign languages are recommended for their relationship with musical studies, and should be elected after consultation with the department.

Students are advised to consult the Bulletin of the Graduate School of Arts and Sciences for those courses open to seniors and others with advanced training.

At the end of the sophomore year students planning to major in music will be expected to file with the department certificates stating that they have passed an examination in elementary piano. A student found deficient in piano techniques is required to take supplementary piano lessons. If she is unable to pay for such lessons herself, she should consult the Director of Financial Aid. As with other applied music activities, these lessons will carry the equivalent of one quarter academic credit per semester.

Majors must have participated for two years in the chorus, orchestra, choir, concert band, collegium musicum, chamber music, or other musical ensembles by the time they are graduated.

A senior major is required to prepare a research paper or project, to be planned in consultation with her adviser no later than the beginning of the senior year.

The Program in the Arts: Those students contemplating a career in performance or composition should see the announcement on the Program in the Arts, pages 54-56, and should consult with Professor Doris at the earliest possible time.

Practice rooms: The department provides practice rooms at a nominal charge. Preference in assigning hours is given in order of application to music majors and those enrolled in courses given by the department. Application for practice time should be made at the Office of Buildings and Grounds, Milbank Hall: during registration and the first week of classes by music majors, and by all others during the week following.

Library: Books, scores and records are available at the Barnard College Library. The Columbia University Music Library contains an extensive collection of music materials for reference, research, and circulation. In addition, phonographs with a large collection of recordings are also available for use by students registered in music courses other than Course 1-2.

Literature and History

§1-2. **An Introduction to Music.**

A study of the elements of musical structure designed to form intelligent listening habits, and of the several great epochs of music, with emphasis on their style and structure. No previous knowledge of music is required. This course is not designed for students majoring in music. Professors Doris and Lazarevich, and Mr. Schubert. Section I M W F 2:10 [5]. Section II Tu Th 10:35-11:50 [7].

[§V1004y. **Literature of the Pianoforte.**

Professor Sachs. Not given in 1973-74.]

§V1005x. The Opera.

A survey of the development of opera from Monteverdi to the present. Prerequisite: Course 1-2 or the equivalent. Professor Beeson. M W 3:10-5. One hour is a listening hour.

§V1006y. The Symphony.

A survey of symphonic style and structure from 1750 to the present. Prerequisite: Course 1-2 or the equivalent. Professor Weiss. M W 3:10-5. One hour is a listening hour.

§V1007x. Music of the World's Peoples.

An introduction to musical practices of the world, excluding the tradition of Euro-American classical music. Prerequisite: Course 1-2 or the equivalent. Professor Katz. Tu Th 1:10-3.

§V1008y. Twentieth Century Music.

A survey of contemporary music from the late 19th century to the present. Prerequisite: Course 1-2 or the equivalent. Professor Sachs. M W 3:10-5. One hour is a listening hour.

§V1015y. American Music.

A survey of music in America from Colonial times through the 1950's. Attention is given to the interrelationships among folk, "entertainment," and art music. Prerequisite: Course 1-2 or equivalent. Professor Newman. Tu Th 2:10-4. One hour is a listening hour.

§V1020x. J. S. Bach.

Bach's principal works examined in the light of his stylistic development and musical environment. Prerequisite: Course 1-2 or the equivalent. Professor Sachs. Tu Th 2:10-4.

[V1617x. Electronic Music: Its Evolution and Techniques.

Not given in 1973-74.]

[§V3021y. Schoenberg. Professor Carpenter. Not given in 1973-74.]**§V3042. Aesthetic Disciplines in Music.**

Readings in aesthetics of music. Basic concepts will be discussed in relation to specific musical examples. Professor Carpenter. Tu Th 2:30-4.

V3123x. History I.

Western music to the early sixteenth century. Prerequisite: Music V2100 or the equivalent. Section I Instructor to be announced. M W 1:10-3. One hour is a listening hour. Section II Professor Newman. Tu Th 5:40-7:30. One hour is a listening hour.

V3124y. History II.

Western music from the early sixteenth to the end of the seventeenth century. Prerequisite: Music V3123 or the equivalent. Section I Professor Lazarevich. M W 1:10-3. One hour is a listening hour. Section II Professor Newman. Tu Th 5:40-7:30. One hour is a listening hour.

V3125x. History III.

Western music from the end of the seventeenth century to the early nineteenth century. Prerequisite: Music V3124 or permission of the instructor. Section I Professor Weiss. M W 3:10, F 3:10-5. One hour is a listening hour. Section II Professor Wolff. Tu Th 5:40-7:30. One hour is a listening hour.

V3126y. History IV.

Western music from the early nineteenth century to the mid-twentieth century. Prerequisite: Music V3125 or permission of the instructor. Section I Professor Hatch. M W 3:10, F 3:10-5. Section II Professor Sachs. Tu Th 5:40-7:30. One hour is a listening hour.

V3179x-V3180y. Seminar. Historical and Analytical Studies in the Literature of Music.

Required seminar for senior majors to supplement and coordinate previous studies. Prerequisite: three years of the theory sequence, two years of the history sequence, and Music V3373-V3374, or written permission of the instructor. Section I Professors Doris (V3179) and Lazarevich (V3180). Th 4:10-6. Section II Professors Newman (V3179) and Beeson (V3180). W 3:10-5.

Theory

V1329x, y. Musicianship.

The basic elements of music are studied with the aim of developing musicianship. Prerequisite: Placement examinations will be given on Tuesday, September 5, and Thursday, January 18, at 10 a.m. in 710 Dodge. Professors Flynn, Lazarevich, Sachs, Mr. Roussakis, and Mr. Schubert. Tu Th 4:10-5:25.

V2100x-V2101y. Theory I and II.

Principles of counterpoint; modal species counterpoint; diatonic harmony. Prerequisite: permission of the instructor. A placement examination will be given on the first day of class. Section Ia Mr. Schubert. Section Ib Miss Cory. Section Ic Mr. James. M W F 1:10. Lab M W 2:10. Section IIa Professor Dodge. Section IIb Mr. Hatch. M W 5:40-6:55. Lab M W 7:10 p.m.

V2300x-V2301y. Theory III and IV.

Tonal counterpoint, including double counterpoint, canon, and fugue. Chromatic harmony. Prerequisite: Music V2100-V2101 or the equivalent. Sections assigned by Professor Carpenter. Section I Professor Carpenter. Tu Th 10:35-11:50. Section II Professor Hilse. M W F 10. Section III Professor Lazarevich (V2300) and Mr. Schubert (V2301). Tu Th 2:10-3:25. Section IV Mr. Monod. Tu Th 4:10-5:25.

V2303x. Theory V.

Twentieth-century musical practices, including investigation of coherence in non-tonal music. Prerequisite: Music V2300-V2301 or the equivalent. Section I Professor Sollberger. Tu Th 2:30-4. Section II Mr. Hatch. Tu Th 3:30-5. Section III Mr. Roussakis. M W 4:10-5:25.

V2305y. Theory VI.

Analysis. Principles of design, texture, rhythm and the organization of musical detail, as revealed through a study of compositions selected from several periods of music history. Prerequisite: Music V2303 or equivalent. Section Ia Mr. Monod. Section Ib Professor Flynn. Tu Th 2:30-4. Section II Mr. Roussakis. M W 4:10-5:25.

V3239x-V3240y. Composition.

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano. One course credit is given for the two semesters. Prerequisite: Course V2301

or written permission of the instructor. Instructor to be announced.
Th 1:10-3.

[V3241x-V3242y. **Advanced Composition.** Not given in 1973-74.]

V3373x-V3374y. **Orchestration, Conducting, and Score-Reading.**

Lectures and practice in orchestration and score-reading, supplemented by practical demonstrations of instruments. Prerequisite: Course V2101 or the equivalent and written permission of the instructor. Section Ia Professor Hilse; Section Ib Mr. Roussakis. M W F 11. Section II Professor Sollberger. Tu Th 5:40-6:55.

**Performance
Activities
(Applied Music)**

A detailed description of the following activities is given in *A Guide to Barnard*.

Academic credit, granted by petition at end of the semester, amounting to one quarter of a course per semester is given for participation in the following activities, with the exception of Music for an Hour.

Audition and rehearsal schedules for all activities will be posted outside the Columbia departmental office, at least a week before registration.

**University
Orchestra.**

Professor Shanet. Auditions: During registration week by appointment. Room 703 Dodge. Rehearsals: M 5:30-7:30 on the stage of McMillin Theatre, and M W F 5:30-7:30 in the three weeks preceding each concert.

**Barnard-Columbia
Chorus.**

Mr. Paget. Auditions: During registration week by appointment. Room 703 Dodge. Rehearsals: Tu Th 6-8 p.m. in Room 405 Milbank Hall.

University Bands.

Mr. Barra. Auditions: Concert Band, during registration week and by appointment. Rehearsals: Tu Th 4-6.

Collegium Musicum.

This organization acquaints the student with certain neglected and unfamiliar masterpieces of vocal and instrumental music not heard in concerts elsewhere. Music majors are particularly urged to attend the meetings and to participate in performances.

Music for an Hour.

This series of informal chamber concerts, held the last Tuesday in every month in the James Room of Barnard Hall, is designed to give all interested instrumentalists a chance to perform for the University community. All those interested in participating should consult the department.

Chamber Music.

Mr. Schubert. Groups for informal performance will be formed at the beginning of the year.

Professor John Meskill
Associate Professor Barbara Stoler Miller (Chairman; 321B Milbank Hall)

Other officers of the University offering courses listed below:

Professors Wm. Theodore de Bary, Ainslie T. Embree, Chih-Tsing Hsia,
 Burton Watson

Adjunct Professor Arthur S. Lall

Associate Professor H. Paul Varley, Herschel F. Webb

Adjunct Associate

Professor Philip B. Yampolsky

Assistant Professors Leonard A. Gordon, David Johnson, Theodore Riccardi, Jr.,
 Jeanette Wakin

Instructor Frederick Underwood

Preceptors Patricia Ebry, Carol Meadows, Rodney Taylor

Oriental Studies aims to provide, by means of the first three courses listed below, an introduction to major aspects of four living Asian civilizations. These courses are designed for any student, whatever her major, who wishes to include knowledge of Asia in her education.

Foreign Language Requirement for the Degree: The satisfactory completion of one of the following courses satisfies the requirement in the respective language: Arabic W1122y, Chinese G4006y, Hindi F1122y, Japanese W4006y, Persian W1122y, Sanskrit G6102y, or Turkish W1122y.

Students who wish to enter Chinese or Japanese language courses above the introductory level *must* pass a language placement test before registering. Placement exams are given during the week *before* classes begin—contact Department of East Asian Languages and Cultures (407 Kent) for exact dates. For placement above the introductory level in Arabic, Persian, Sanskrit, or Turkish, contact Department of Middle East Languages and Cultures (609 Kent).

Majors in the program will be prepared for further study in graduate school or some other related professional training. They will concentrate on one of the following regions or countries: the Middle East, India, China, or Japan.

The Middle East.

(a) As a prerequisite, to be completed by the end of the sophomore year, Oriental Civilizations V3001x-V3002y.

(b) Four to six courses of Arabic, Persian, or Turkish; details to be explained by the adviser.

(c) Four additional courses on the Middle East, to be chosen in consultation with the adviser.

(d) One course in supervised readings, to be arranged in consultation with the adviser.

India, China, or Japan.

(a) As a prerequisite, to be completed by the end of the sophomore year, Oriental Civilizations V3355x-V3356y, or any two of the following courses: Oriental Civilizations V3357x, V3359y, V3361x.

(b) Four to six courses of an appropriate Oriental language; details to be explained by the adviser.

(c) Two courses on India, China, or Japan in one discipline, e.g., Anthropology, History, Literature, Political Science, Religion. To be chosen from offerings in Oriental Studies, as well as in the departments of East Asian Languages and Cultures, Middle East Languages and Cultures, Anthropology, History, etc.

(d) Two more courses above the introductory level in the same discipline as chosen under subsection (c), for training in the discipline; to be chosen in consultation with the adviser.

(e) Two courses in senior seminar, or one course in readings and one in senior seminar, or one course in senior seminar and Oriental Humanities V3399x-V3400y.

Majors in the program come under the administration of the Committee on Foreign Area Studies. For admissions procedures and other details, see page 58.

Oriental Civilizations §V3355x-V3356y.

Introduction to the History and Culture of Oriental Societies.

The more important factors in the life of peoples of India, China, and Japan, and an appraisal of their role in the world today. Autumn Term: The evolution of these civilizations to recent times, emphasizing their characteristic institutions and intellectual traditions. Spring Term: Developments in the nineteenth and twentieth centuries as these societies have confronted the problems of modernization. Fourth hour: Lectures and audio-visual illustrations. Prerequisite: one course in history or permission of the instructor. Professors Gordon, Lall, Meskill, Riccardi, and Varley. Section I M W F 10. Section II M W F 11. Fourth hour W 12.

Oriental Civilizations §V3357x.

Introduction to the Civilization of India.

Professor Embree. Tu 2:10-4.

Oriental Civilizations §V3359y.

Introduction to the Civilization of China.

Instructor to be announced. Time to be arranged.

Oriental Civilizations §V3361x.

Introduction to the Civilization of Japan.

Professor Webb. Time to be arranged.

Oriental Humanities §V3399x-V3400y.

Colloquium.

A reading and discussion of major works of Oriental literature, social philosophy, and religion which have helped shape the view of man, the human condition, disciplines of self-cultivation, and man in society in the Islamic world, India, China, and Japan. The Autumn Term will deal with works from the Near East and India;

the Spring Term with readings from China and Japan. Open to juniors and seniors who have completed two courses of literature and one course of philosophy or religion, or have written permission of the instructor. Professors Hsia, Johnson, Meskill, Miller, Wakin, Yampolsky, Miss Meadows, and Mr. Taylor. Section I Tu 3:10-5. Section II W 3:10-5. Section III Th 7:10-9 p.m.

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|---|---|
| <p>Oriental Civilizations
V3001x-V3002y.</p> | <p>Introduction to Islamic Civilization.
Autumn Term: An examination of Islamic civilization. Its institutional and intellectual characteristics to A.D. 1800. Spring Term: Important factors, such as the impact of the West and nationalism, on the Islamic peoples from 1800 to the present. Professor Tu Th 12-1:15.</p> |
| <p>Oriental Studies
V3379x.</p> | <p>Readings in Oriental Studies.
Colloquium on major problems of Asian civilizations. Focus for 1973-74: Revolution and reform in Chinese civilization. Prerequisite: Oriental Civilizations V3355x-V3356y or permission of the instructor. Professor Meskill. M 2:10-4.</p> |
| <p>Oriental Studies
V3402x.</p> | <p>Indian Literature in Translation.
The art of the storyteller. Traditional and modern Indian narrative literature will be used as a medium to introduce the student to various aspects of Indian culture. Special emphasis will be given to the forms of myth, folktale, epic, romance, and fable in relation to the development of the novel in India. Open to all except freshmen. Professor Miller M 12-1 (conference hour), F 11-1.</p> |
| <p>Oriental Studies
V3403y.</p> | <p>Indian Aesthetics in Relation to Classical Poetry, Drama, Music.
Basic concepts in Indian aesthetics will be studied as seen in writings on poetics, dramaturgy, and music theory and in works of classical Indian poetry, drama, and music. One hour each week will be devoted to illustrated lectures and demonstrations of Indian music and dance. Open to all except freshmen. Professor Miller. M 12-1 (lecture-demonstration hour), F 11-1.</p> |
| <p>Oriental Studies
V3501x-V3502y.</p> | <p>Seminar in Asian Literature.
Autumn Term: Selected themes of Chinese, Japanese, and Indian poetry. Spring Term: Selected topics in the contemporary literature of China, Japan, India, and the Near East. Open to juniors and seniors with the permission of Professor Miller. Professors Miller and Watson. F 2:10-4.</p> |
| <p>Oriental Studies
V3507x, V3508y.</p> | <p>Seminar on Comparative Studies in Asian Civilizations.
Autumn Term: Concepts of Asia in European and Asian social and historical thought. Spring Term: Studies in the modernization of the traditional societies of China, Japan, and India. Permission of Professor Varley required. Professors Gordon and Varley. W 2:10-4.</p> |

General courses related to Oriental Studies:

- | | |
|---|--|
| <p>Anthropology
V3013x.</p> | <p>Village India.
Professor Klass. Tu Th 1:10-2:25.</p> |
| <p>Political Science
24.</p> | <p>Asian Politics.
Professor Dalton. Tu Th 10:35-11:50.</p> |

Religion **Introduction to the Study of Religion: Eastern Religions.**
V1102x or V1102y. See section assignments.

Also note offerings under Eastern Religions in the Religion Department.

Oriental Language Courses Language courses are offered through the departments of East Asian Languages and Cultures and Middle East Languages and Cultures. Consult the listings of these departments in the Columbia College and Graduate School of Arts and Sciences bulletins for detailed descriptions of courses. Three or more years of language instruction, beginning at the elementary level, are offered in Arabic, Chinese, Hindi-Urdu, Japanese, Persian, Sanskrit, Turkish.

Graduate Courses Certain graduate courses given in the University may be taken by majors, with the consent of the major adviser, to supplement department offerings. Listed below are area courses frequently appropriate for this purpose. Consult the bulletin of the Graduate School of Arts and Sciences for details and further listings.

East Asia:

Chinese **Chinese Literature.**
G4031-G4032. Professor Hsia and Watson.

Chinese **Introduction to Chinese Thought.**
G6027-G6028. Professor de Bary.

Chinese-History **Introduction to the Civilization of China.**
G6815-G6816. Professor Bielenstein.

Chinese-History **History of Modern China.**
G6825-G6826. Professor Wilbur.

Japanese **Japanese Literature.**
G4031 and G4032. Professor Keene.

Japanese **Introduction to Japanese Thought.**
G6027-G6028. Professor de Bary.

Japanese-History **Early and Medieval Japan.**
G6832 and G6833. Professors Morris and Varley.

Japanese-History **The Tokugawa Period.**
G6834. Professor Webb.

Japanese-History **Modern Japan.**
G6839 and G6840. Professors Webb and Tiedmann.

Korean-History **History of Korea.**
G6031. Professor Ledyard.

Korean-History **History of Modern Korea.**
G6033. Professor Ledyard.

Southern Asia:

History **History of Modern India and Pakistan.**
W4825-W4826. Professor Gordon.

History **Modern History of Southeast Asia.**
W4851-W4852. Professor Roff.

Indic G4102. **History and Cultures of the Himalayan Area.**
Professor Riccardi.

Indic-Religion **Ancient and Classical Indian Philosophy.**
G4444-G4445. Professor Wayman.

Religion **Early and Later Indian Buddhism.**
G4333-G4334. Professor Wayman.

Middle East:

History **Byzantine History, 330-1453.**
W4453-W4454. Professor Garsoian.

Islamic G4603. **Institutions of Islam.** Professor Wakin.

Islamic G4206. **Modernist Thought in the Islamic World.** Professor Madina.

Middle East **Cultural History of the Middle East.**
G4503-G4504. Professor Menges.

Persian G4602. **Introduction to Persian Literature.** Professor Yar-Shater.



<i>Professors</i>	Joseph Gerard Brennan, Mary Mothersill (Chairman; 326D Milbank Hall)
<i>Associate Professor</i>	Sue Howard Larson
<i>Assistant Professors</i>	John Francis Lad, Onora Sylvia Nell
<i>Adjunct Assistant Professor</i>	Myriam Malinovich

The major in philosophy is designed to develop competence in techniques of conceptual analysis and to acquaint the student with the major areas for investigation in traditional and contemporary philosophic theory.

Within the limits of the prerequisites described below, philosophy courses may be taken in any sequence: the numbers assigned to particular courses indicate roughly the level of competence expected of students. (Transfer students who wish to count courses taken elsewhere as prerequisites for Barnard courses must have written permission from the Chairman of the Philosophy Department and may be required to take a placement test.)

A student who majors in philosophy is required to take the following courses or their equivalents: 1; 5 or 32 or 73; 9 or 77; one of the following combinations: 35 and 36, 35 and 61, 36 and 61; one elective course; and in the senior year, the seminar, 87-88. Philosophy majors are urged to satisfy the logic requirement, 5 or 32 or 73, as early as possible and must do so no later than the spring semester of their junior year.

§1x (or 1y). Introduction to Philosophy.

Interpretation and analysis of major topics in ethics, metaphysics, theory of knowledge. Readings from historical and contemporary sources. Professors Brennan, Larson, Mothersill, Nell, Lad, and Malinovich. Section I M W F 9. [1] Section II M W F 10. [2] Section III M W F 11. [3] Section IV Tu Th 10:35-11:50. [7] Section V M W F 12:10. [12].

[§2x, 2y. First-Year Seminar. Not given in 1973-74.]

§5. Logic I. [4]

Presented as a formal science, logic will be distinguished from the methodology of the empirical sciences. Analysis of the formal elements of classical logic will be followed by an introduction to symbolic logic. Professor Brennan. M W F 1:10.

§9. Ethics. [7]

An introduction to the central problems of moral philosophy. Among the topics covered are: action and reasons for action; pleasure and pain; obligation, rights and duties; alternative moral ideals; the use of moral language. Prerequisite: Course 1 or permission of the instructor. Professor Mothersill. Tu Th 10:35-11:50.

§32. Logic II. [9]

An introduction to formal systems of propositional logic and first order quantification theory. Consideration of questions concerning consistency, completeness, compactness, and decidability. Selected topics in semantics and the philosophy of logic. Prerequisite: Course 5 or permission of the instructor. Professor Lad. Tu Th 2:10-3:25.

§34. The Concept of Beauty. [7]

An analysis of parallels between made and found objects; portraits and portrait-subjects; music and sound-effects; film and documentary; poetry and speech. Selected readings from contemporary sources. Prerequisite: Course 1 or permission of the instructor. Professor Mothersill. Tu Th 10:35-11:50.

§35, 36. History of Modern Philosophy. [2]

Autumn Term: Conceptions of scientific method; the continental rationalists. Readings include selections from Descartes, Hobbes, Spinoza and Leibniz. Spring Term: Moral and political philosophy; theory of knowledge. Readings include selections from Locke, Berkeley, Hume and Kant. Either term may be taken separately. Prerequisite: Course 1 or permission of the instructor. Autumn Term: Professor Nell. Spring Term: Professor Malinovich. M W F 10.

[§38. Twentieth Century Philosophy.

Not given in 1973-74.]

§39, 40. Supplementary Readings in Philosophy. [0]

To be taken only with the consent of the instructor and permission of the department.

§43, 44. Philosophical Implications of the Modern Novel. [3]

Autumn Term: Reading of Schopenhauer's *The World as Will and Idea* and three works of Nietzsche, followed by a study of Thomas Mann's *The Magic Mountain*. Hermann Hesse's novels are discussed with particular attention to *The Glass Bead Game*. Spring Term: The role of ideas in works of imaginative literature. Readings in Joyce, Gide, Bergson, Proust, Sartre, Greene, West, Kawabata and Mishima. Either term may be taken separately. Professor Brennan. M W F 11.

§50. Phenomenology and Existentialism. [5]

A survey of the development of twentieth century continental thought. Readings include selections from the works of Brentano, Meinong, Frege, Husserl, Heidegger, and Sartre. Prerequisite: Course 1 or permission of the instructor. Professor Lad. M W F 2:10.

61. Greek Philosophy. [2]

A humanistic introduction to Greek philosophy, with some attention to its relations to modern thought and concerns. Topics and readings include: the beginnings of science and philosophy in pre-Socratic thought; Socrates as teacher and moralist; Plato and the *Dialogues* (especially *Symposium*, *Meno*, *Republic*, *Timaeus*); Aristotle's metaphysics and ethics; Stoic and Epicurean cosmology and moral theory; Plotinus and the origins of Western mysticism. Professor Brennan. M W F 10.

§73. Logic III. [9]

An introduction to mathematical logic and the foundations of mathematics. Topics include: basic model theory and decidability results for first-order theories, Peano's axioms for arithmetic, Godel's

incompleteness theorems, Turing machines and effectively computable functions, and informal axiomatic set theory. Prerequisite: Course 5 or 32 or equivalent. Professor Lad. Tu Th 2:10-3:25.

[§75. Social Philosophy. Seminar.

Professor Nell. Not given in 1973-74.]

§77. Theory of Knowledge. Seminar.

[0]

A general account of the concepts of belief, knowledge, evidence, judgment and error. Readings from contemporary and classical sources. Prerequisite: Course 1 or 5 or permission of the instructor. Professor Lad. Tu Th 10:35-11:50.

§79. Theory of Meaning.

[5]

Consideration of the problems of constructing a theory of meaning for a natural language. Readings from Frege, Tarski, Quine, Davidson, Austin and others. Prerequisite: Course 1 or 5 or permission of the instructor. Professor Larson. M W F 2:10.

§82. Metaphysics.

[4]

Systematic consideration of problems related to some fundamental metaphysical distinctions, including substance-attribute, particular-universal, mind-body, necessity, contingency and causality. Readings in contemporary and classical philosophy. Prerequisite: Course 1 or the equivalent. Professor Larson. M W F 1:10.

§84. Philosophy of Education.

[4]

Philosophical presuppositions of intellectual and moral education. Examination of topics such as innate ideas; natural moral characteristics; permissiveness; "free" schooling; "deschooling"; material and moral incentives. Readings will include selections from Plato, Rousseau, Piaget, Dewey, Chomsky, Illyich, Neil, and current periodical literature. Professor Nell. M W F 1:10.

87-88. Senior Seminar.

[0]

An intensive study of selected philosophical classics. Discussions, oral reports and term papers. Required of all majors in their senior year. Autumn Term: Professor Larson. Spring Term: Professor Nell. W 3:10-5. Conference hours to be arranged.

**Columbia College
and School of
General Studies
Courses**

C1101x or y. Methods and Problems of Philosophic Thought.

Professors Berofsky and Danto. Tu Th 11-12:15.

W1103x-W1104y. The History of Philosophy.

Professor Forrester. M W 2:40-3:55.

C1201y. Ideology and Society.

Professor Teitelman. Tu Th 4:10-5:25.

W3039x. Existentialism.

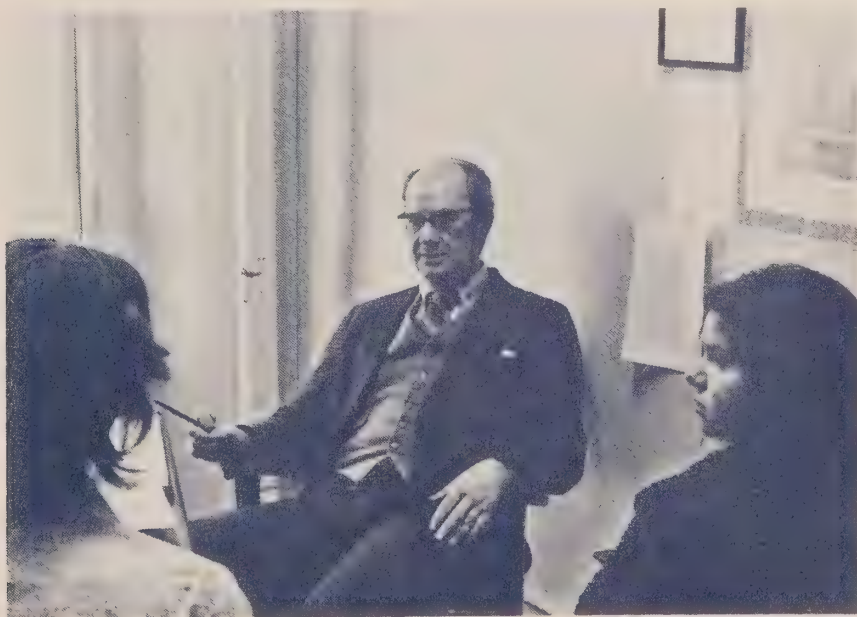
Professor Cumming. Tu Th 4:10-5:25.

C3105y. Concept of Literature.

Professor Kuhns. Tu Th 11-12:15.

- C3107y. Moral Philosophy.**
Mr. Malino. Tu Th 2:40-3:55.
- W3109x. Social and Political Philosophy.**
Professor Sidorsky. Tu Th 11-12:15.
- C3110x. Aesthetics.**
Professor Kuhns. M W 11-12:15.
- W3112y. Philosophy of Mathematics.**
Professor Steiner. M W F 9.
- C3117x. Formal Logic.**
Professor Steiner. M W F 9.
- W3117x. Nineteenth-century Philosophy.**
Mr. Geuss. M W 4:10-5:25.
- W3118y. Philosophy of Science.**
Professor Levi. Tu Th 11-12:15.
- W3120y. Twentieth-century Philosophy.**
Professor Sidorsky. Tu Th 1:10-2:25.
- W3122y. The Empiricists.**
Professor Parsons. M W F 10.
- C3123x. Metaphysics.**
Professor Berofsky. Tu Th 11-12:15.
- C3188y. Theory of Knowledge.**
Mr. Higginbotham. M W 11-12:15.
- W3310x. Plato.**
Professor Forrester. W F 12:10-1:25.
- C3912y. Senior Seminar in Problems of Philosophy.**
Professor Morgenbesser. Hours to be arranged.

Consult Columbia College Bulletin for course descriptions.



<i>Associate Professor</i>	Jeanette S. Roosevelt
<i>Assistant Professor</i>	Marion R. Philips
<i>Associates</i>	Sandra Genter, Edith G. Mason (Chairman)
<i>Instructors</i>	Alice Braunwarth, Barbara Fitts, Hannah Kahn, Linda Lerner

The curriculum is organized and administered by the faculty of the Department of Physical Education in cooperation with the Health Service and the Recreation and Athletic Association. Courses are offered in twenty-five skills in the areas of dance, sports, aquatics, movement, and fitness. Multiple sections are taught in four skill levels—beginning, low intermediate, intermediate, and advanced.

Health and Activity Grade The College Physician evaluates the health status of students and assigns health and activity grades which influence the program the students elect.

Posture Analysis Freshmen students may elect to have a complete posture analysis with follow-up examinations in subsequent years.

Requirement Completion of two semesters in the Freshman year and two semesters beyond the Freshman year. *Transfer* students are required to have two semesters' credit beyond the Freshman year. *Freshman transfers* must also complete the semester they enter. Students who have completed their requirement may elect courses optionally.

Registration Students are sent preregistration forms each semester in time to have registration confirmed before filing programs with the registrar. Students must include physical education courses by *number, title, and section* on final programs to be filed with the registrar. Students who do not preregister may register the first two days of the semester in the gymnasium. Columbia University students, other than Barnard undergraduates, may register for courses with permission of the Physical Education Department.

Courses The following courses will fulfill the physical education requirement. They are all semester courses which have two class sessions per week. The complete schedule of courses is sent to each student and is available in the Physical Education Department, 209 Barnard Hall. Students are advised to register according to their own skill level: beginner = (a), low intermediate = (b), intermediate = (c), advanced = (d).

Aquatics 20x. Red Cross Senior Life Saving Course. (c,d)

21y. Water Safety Instructors Course. (d)

- 22. **Swimming.** (a,c,d)
- 23. **Advanced Aquatics.** (d)
The course will offer springboard diving, canoe and rescue skills, skin diving, and advanced strokes, including the dolphin butterfly.
- 24. **Synchronized Swim.** (c,d)
- 25. **Speed Swim.** (d)
- 26. **Swim-and-Stay-Fit.** (c)
- Dance** 30. **Modern Dance.** (a,b,c,d)
- 31. **Ballet.** (a,c)
- 32. **Jazz.** (a,c)
- 33. **Folk Dance.** (a,c,d)
Instruction in International, African, Balkan, and Israeli Dances, as well as the folklore of the countries, is given by experts in the respective forms of folk dance. Demonstrations of folk dances, under the direction of the Department, are given by members of the advanced classes.
- 34. **Tap Dance.** (a)
- 35. **Movement Workshop.** (a,d)
For those wishing a more concentrated approach to the understanding of body movement and its creative potentials. The study of body movement, based upon Laban's Effort-Shape Theory, which emphasizes kinesthetic perception and range of movement possibility through the exploration and analysis of space, time, and energy. Performance opportunities for advanced students.

Courses for Credit The following courses are offered for academic credit only. For course description see Dance, pages 92, 93.

- Dance 61-62. Dance Workshop.**
- 63. **Form in Dance Composition.**
- 64. **Content in Dance Composition.**
- 65, 66. **History of Dance.**
- 74. **Seminar on Contemporary Dance Forms.**
- [76. **Critical Writing on Dance.**
Not given in 1973-74.]

- Special Courses** 40. **Body Conditioning.** (a,c)
For students who prefer a strenuous exercise program which concentrates on improvement of the tone of the whole body; activities are designed to promote increased flexibility, strength, agility, and relaxation.
- 41. **Corrective Exercises.**
A program of exercises designed to maintain fitness as well as to improve body alignment. Exercises practiced in a group are supplemented by those prepared for each student toward the correction of functional deviations revealed in an analysis of her posture.

43. Relaxation.

Instruction and practice in techniques of relaxing skeletal muscles.
Enrollment by permission of Professor Roosevelt.

44. Self Defense.

45. Yoga.

Sports 50. Archery. (a,c,d)

51. Badminton. (a,c,d)

52. Basketball. (a,c,d)

53. Bowling. (a,c,d)

54. Fencing. (a,c,d)

55. Volleyball. (a,c,d)

56. Tennis. (a,b,c,d)



<i>Visiting Professor</i>	Samuel Devons (Director of History of Physics Laboratory)
<i>Associate Professor</i>	Richard M. Friedberg (Chairman; 503 Altschul Hall)
<i>Assistant Professor</i>	Sigalia Dostrovsky

Other officers of the University offering courses listed below:

<i>Professors</i>	Charles Baltay, Henry M. Foley, Paolo Franzini, Sven Hartmann, W. Lee, Joaquin M. Luttinger, Robert Novick, Allan M. Sachs, C. S. Wu
<i>Associate Professor</i>	William Happer
<i>Assistant Professors</i>	J. Finkelstein, Lawrence Price, Martin C. Weisskopf, Richard Wolff
<i>Lecturer</i>	Carl A. Kocher.

The department offers four distinct introductory sequences, only one of which may ordinarily be taken for credit.

1. Physics V1305x, V1306y and Physics C1001-C1002 are designed for liberal arts students who wish to achieve a qualitative understanding of the science. Either C1001-C1002 taken with Physics 1, 2, or V1305x, V1306y satisfies the science requirement of Barnard College.
2. Either V1003, V1004 or V1103, V1104 is satisfactory preparation for medical school). Both cover the same material, but V1103, V1104 is somewhat more intensive and is designed for students majoring in sciences other than physics. Neither course is recommended as a foundation for more advanced work in physics.
3. An entering student with a serious interest in physics should enroll in the autumn term in Physics C1006x, which begins a four-term sequence (C1007y or C1107y, C1011x, C1012y) leading to more advanced courses. (These introductory courses may be taken without laboratory by nonmajors. See the Columbia College catalogue for the appropriate course numbers.)
4. Freshmen with exceptional aptitude for physics and a good mathematical background may be admitted into the two-semester sequence, Physics C1021, C1022, which serves by itself as an introduction to the W3000 courses. Admission is by special interview with the instructor. A student interested in this course should, if possible, attend the "Physics Placement Meeting" announced in the Columbia College Freshman Week Program.

The program of study beyond the C1000 level, leading to a major in physics, is worked out individually with the department. Normally it includes Physics W3003, W3007, W3008, G4015, G4016, 5 points of intermediate lab work, including W3083, and W3072, plus one or more additional courses at the G4000 level. Four terms of calculus are essential, and some additional work in mathematics is recommended. The program should also include a year of chemistry, although in some instances astronomy or biology may be substituted. The major examination consists of the Undergraduate Record Examination in physics and a one-hour oral examination.

V1305x, V1306y. Discovery and Experiment in Physics.

Topics in the history of physics with experimental work in the History of Physics Laboratory. Critical study of primary sources and discussions on historic experiments in physics from the 17th to the 20th century. This course fulfills the Barnard science requirement. It is oriented primarily to non-science students. Enrollment limited to 36 students. Professor Dostrovsky. Lec. Tu Th 2:10-3:25. Lab. (2 hours) Tu 12:10-2, W 2:10-4, Th 3:35-5:25.

C1001x, C1002y. Elementary Physics.

An introductory treatment of the major discoveries and theories of physics and their historical development. C1001: classical (17th century) physics. C1002: contemporary (20th century) physics. This course does not fulfill the physics requirement for admission to medical school. It is primarily addressed to non-science students. This course together with Physics 1, 2 fulfills the Barnard science requirement. Professor Weisskopf. Lec. Tu Th 11-12:15. Discussion: 1 hour to be arranged.

1, 2. History of Physics Laboratory. (Elementary.)

A selection of experiments illustrating discoveries, measurements and concepts which have played a major role in the development of physics. These experiments are performed and reviewed with regard to their actual historical context. No credit. Professor Dostrovsky. No lecture. Lab. M 2:10-4, in 515 Altschul.

V1003x, V1004y. General Physics.

The study of mechanics and heat, electricity, magnetism, optics, and modern physics. Calculus is not a prerequisite for this course. Instructor to be announced. Lec. M W 11. Recit. F 11 or 12. Lab. 3 consecutive hours to be chosen from M Tu W Th F 1:10-4 or 4:10-7. Recitation and laboratory sections are arranged after the first class meeting.

V1103x, V1104y. General Physics.

Autumn Term: Mechanics, heat, and optics. Spring Term: Electricity, magnetism, and modern physics. Recommended parallel: Calculus I, II. Professor Sachs. Lec. M W F 10. Three hours of laboratory and one recitation hour, to be arranged at the first meeting of the class. Laboratory is required of all students wishing to receive credit for the course.

V1005y. Contemporary Physics.

A discussion of topics in contemporary physics. Intended for students interested in science, but not specializing in physics. Prerequisite: Physics C1001, C1002, or V1003, V1004, or V1103, V1104 or equivalent. Instructor to be announced. Lec. M W 4:10-5:25. No laboratory.

C1006x. General Physics I. Mechanics.

Fundamental laws of mechanics: kinematics; dynamics; work and energy. Parallel: Calculus I or the equivalent. Professors Kocher and Wolff. Lec. and Recit. M W F 9. Lab. to be arranged.

C1007y. General Physics II. Electricity and Magnetism.

Electrostatics; direct currents; electromagnetism; alternating currents; wave motion. Prerequisite: C1006. Parallel: Calculus II or the equivalent. Professor Kocher. Lec. and Recit. M W F 9. Lab. to be arranged.

C1107y. General Physics II. Electricity and Magnetism.

The topics of Physics C1007 are considered in greater depth, with less time spent on routine applications and with extended treatment of some of the more advanced topics. Prerequisites: same as for C1007y. Professor Wolff. Lec. and Recit. M W F 9. Lab. to be arranged.

C1011x. General Physics, III: Optics and Thermodynamics.

Acoustical waves; nature of light; polarization; geometrical optics; interference and diffraction of light; heat; states of matter; gas laws; the laws of thermodynamics; kinetic theory of gases. Prerequisite: C1006. Parallel: Mathematics C1201 or C1203. Professors Foley and Price. Lec. Tu Th 9. Recit. 1 hour to be arranged after the first meeting. Lab. to be arranged.

C1012y. General Physics IV: Modern Physics.

Quantum effects; atomic structure and spectra; nuclear structure and reactions; fission and fusion; elementary particles. Prerequisite: C1011x and C1007 or C1107. Professor Foley. Lec. Tu Th 9. Recit. 1 hour to be arranged after the first meeting. Lab. to be arranged.

C1021x, C1022y. General Physics.

Mechanics, heat, electricity, magnetism, light and modern physics. Prerequisite: advanced placement in mathematics or some knowledge of differential and integral calculus, and the permission of the departmental representative. (A special placement meeting is held during Freshman Orientation.) Intended primarily for freshmen with special ability in mathematics and physics. Professor Baltay. Lec. M W 4:10-5:25. Lab. to be arranged.

11, 12. History of Physics Laboratory.

Individual studies. Experimental investigations which played a major role in the logical and historical development of physics are studied by both laboratory and literary work. Students working individually or in collaboration with another student choose one or two examples (ranging from physics in the 17th to the 20th century) and study these thoroughly, with some guidance. Prerequisite: Good basic knowledge of physics and permission of the instructor; aptitude for laboratory work; individual initiative. Professor Devons. Hours by arrangement.

32. The Physics of Musical Sound.

Topics in the physics of sound and vibration, oriented especially to understanding the physics of musical instruments. Will include some consideration of the history of the interaction between physics and music in the development of acoustics. Prerequisites: Some experience with music and a semester each of physics and calculus, or permission of the instructor. Professor Dostrovsky. Tu Th 10:35-11:50.

W3003x. Mechanics.

Newtonian mechanics; conservative forces and potentials; oscillations; central forces. Prerequisite: general physics and integral calculus. Professor Happer. M W F 10.

W3007x, W3008y. Theory of Electricity and Magnetism.

A discussion of the phenomena of electrostatics, current flow, and electromagnetism, and the description of these phenomena in mathematical terms. The treatment is directed toward the formulation of Maxwell's equations and includes some application of general principles to phenomena associated with lumped-impedance circuits, transmission lines and plane electromagnetic waves. Prerequisite: an introductory course in electricity and magnetism (C1007 or equivalent). Professor Finkelstein. M W 11-12:15.

W3072y. Seminar in Current Research Problems.

A detailed study of a selected field of active research in physics. The motivation, techniques, and results obtained to the present, as well as the difficulties and unsolved problems. Prerequisite: Permission of the department representative. The Staff. Th 4:10-5:25.

W3081x or y. Intermediate Laboratory Work.

Experiments are available in physical optics, electronic circuits, atomic physics, and nuclear physics. An individual program of experiments is arranged for each student in accordance with her interests and previous experience. Immediately after registration and not later than the end of the second day after the beginning of classes, registrants should consult the staff member in charge about assignment to a laboratory section and the schedule of experiments to be performed. Professors Franzini and Rainwater. One four-hour period weekly. Hours to be arranged by the instructor.

Graduate Courses The following G4000 courses form an integral part of the undergraduate major program in Physics:

G4001x, G4001y. Some Topics in the History of Physics: 17th to 20th Centuries. (Seminar)

Theories of light (17th-18th centuries), early studies of electricity (18th century), mechanics and electromagnetism (18th-19th centuries), electrotechnology (19th century), fluid motion and development of thermodynamics (19th century), evolution of atomic concepts (17th to 20th centuries), physics and living matter (17th to 19th centuries). Prerequisite: C1006, C1007, C1011, C1012, or permission of the instructor. Professor Devons. Hours to be arranged.

G4003y. Lagrangian Mechanics.

Generalized coordinates; Lagrange's and Hamilton's equations with applications including rigid bodies. Normal coordinate treatment of coupled systems. Prerequisites: integral calculus and differential equations and W3003 or equivalent. Professor Price. M W F 10. Problem session (optional): hours to be arranged.

G4009x. Light.

Physical and geometrical optics. Prerequisite: general physics and integral calculus. Professor Luttinger. M W F 10.

G4013x. Thermodynamics.

General principles of thermodynamics; the three fundamental laws; definition of entropy and the thermodynamic potentials; simple application of thermodynamics; microscopic interpretation of thermodynamics. Prerequisite: W3003 and W3007. Parallel: G4015. Professor Hartmann. Tu Th 2:40-3:55.

G4015x, G4016y. Atomic Physics and Introductory Quantum Mechanics.

Spectroscopic and other phenomena which form the experimental basis of modern atomic physics. The interpretation of atomic structures and radiation phenomena in terms of the quantum theory. Elementary wave mechanics is developed and applied to simple atomic structures and to potential well and barrier problems. Atoms in applied fields and the interactions in many electron atoms are treated by perturbation theory. The theory of spin and angular momentum. Prerequisite: C1006, C1007, C1011, C1012, or their equivalents, and two additional terms of course work in intermediate or advanced physics. Professor Novick. M W F 9. Problem session (optional): hours to be arranged.

G4040y. Nuclear Physics.

An introductory course in nuclear physics. General properties of nuclei, the systematics of stable nuclei, the two-body problem at low energies and nuclear forces, alpha radioactivity, beta decay, emission of electromagnetic radiation and selection rules, nuclear shell structure, phenomena associated with the passage of nuclear radiations through matter and methods of detection, high-energy accelerators, nuclear reactions and artificial radioactivity, neutrons and nuclear fission, properties and interaction of mesons. Prerequisite: G4015 or the equivalent. Professor Wu. Tu Th 11-12:15.

G4050y. Elementary Particle Physics.

A basic treatment of elementary particle physics with an emphasis on the experimental point of view: classification and properties of the particles; strong interactions of strange and nonstrange particles; weak interaction; symmetry principles. Prerequisite: G4015x. Professor W. Lee. M W 2:40-3:55.

<i>Professor</i>	Demetrios Caraley (Chairman; 408 Lehman Hall)
<i>Associate Professors</i>	Dennis Dalton, Peter H. Juviler, Inez S. Reid
<i>Assistant Professors</i>	Lynn Davis, ¹ Janet Hannigan, Astrid E. Merget, Richard M. Pious
<i>Lecturer</i>	Annette B. Fox
<i>Associate</i>	Bruce Feld
<i>Instructor</i>	Flora S. Davidson

Other officers of the University offering courses listed below:

<i>Professors</i>	Zbigniew Brzezinski, Herbert A. Deane, Julian Franklin, Charles V. Hamilton, Roger Hilsman, Harvey C. Mansfield, Warner R. Schilling, Alan F. Westin
<i>Associate Professor</i>	Bruce L. R. Smith ¹
<i>Assistant Professors</i>	Gerald Finch, Ira Katznelson, Wilbur Rich
<i>Lecturers</i>	Seweryn Bialer, Stuart Fagan

¹ Absent on leave, 1973-74.

The purpose of the study of political science is to develop understanding of the basic political institutions and processes in human society. This understanding involves analysis and evaluation of political systems in the context of the challenges they face and the changes they undergo. The major is designed to equip the student to play an effective role as citizen in a democratic political order, to participate more actively in political life as public or party official, civil servant, lawyer, or political commentator, or to undertake graduate training in political science in preparation for a career in college teaching.

A student majoring in political science is required to take a minimum of nine semester-courses from the Department's listed offerings, including Courses 1; either 2, 11, V3411, or V3412 (formerly 13 or 14); and two colloquia from among those designated by an asterisk (*). A student majoring in urban studies with a concentration in political science is required to take a minimum of six semester courses including Courses 1, V3313, and two from among: 26, 27, 28, 29, V3407. In order to have the opportunity for independent specialized work, and to explore more adequately the techniques of scholarly investigation, both majors and concentrators are required to write a senior essay as part of the work for the senior research seminar (either Course 61-62 or V3711x-3712y).

The department's requirements are flexibly drawn so as to permit a major in consultation with her adviser to plan an overall program that, while providing some background in various areas of government and politics, can place special

emphasis on such particular interests as the American political system (including its urban subsystem), foreign political systems, international relations, or political theory.

Other social sciences: In view of the essential unity of the social sciences, students majoring in political science are urged to take at least three courses from among the following departments as selected in conference with the adviser: anthropology, economics, history, sociology.

General Courses

Courses listed under this heading may be taken without previous study of political science.

§1. Dynamics of American Politics.

An introduction to political dynamics through an examination of the American political system at the national level. Particular attention is given to how political officials are chosen and replaced, how governmental decisions are made, and how governmental performance affects demands on and support for the political system. Professor Pious (in charge) and other members of the department. Section I M W 11-12:15. [3] Section II M W 2:10-3:25. [5] Section III Tu Th 2:10-3:25. [9]

Sign-up sheets for discussion groups at different hours are posted outside 408 Lehman.

§1y. Dynamics of American Politics. [3]

Professor Pious. M W 11-12:15.

§2. Comparative Politics. [3]

Study of political attitudes, power, and problems of responding to challenge and change in selected political systems in Europe and Africa. Professor Juviler (in charge) and instructor to be announced. Lecture M 11-12:15 and discussion sections W 11-12:15 or 12:45-2.

§3. Electoral Politics. [0]

Intensive study of electoral politics, with particular emphasis on party and non-party campaign organizations, campaign strategies and tactics, and factors influencing the behavior of voters. Participation in or first-hand observation of an election campaign is a required part of the course. Professor Merget. M W F 10.

§4. Freshman Seminar in Government. [0]

Intensive study of a topic to be selected by the instructor. The aim of the course is to acquaint students with the methods and sources of political science and to provide experience in discussion and writing. Topics for Spring 1974, sections, instructors, and hours to be announced in December.

§7. Modern Political Movements. [7]

A tentative inquiry into the roles of deviance and dissent in organized society, and the types of political movements; selective case studies of movements such as anarchism, Marxism, fascism, nationalism, and movements of racial or ethnic self-assertion. Professors Dalton and Juviler (in charge). Lec. Tu Th 10:35-11:50. Conference Tu 12:30-2.

§V3313y. American Urban Politics.

Patterns of government and politics in America's large cities and

suburbs. Analysis of the influence of party leaders, local officials, social and economic notables, racial, ethnic and other interest groups, the press, the general public, and the federal and state governments. The impact of urban governments on ghetto and other urban conditions. Professor Caraley (in charge) and another member of the department. Lec. M W 2:10 and periodic discussion sections to be arranged.

10. Workshop in Urban Politics. [0]

Intensive study of selected aspects of urban government and politics. Each student will carry out a special research project based in part on actual participation in or first-hand observation of some element of urban governmental and political activity. Prerequisite or co-requisite: V3313 or equivalent and permission of the instructor. Professor Merget. Bi-weekly meetings. Hours to be arranged.

§11. International Politics. [5]

An exploration of the basic setting and dynamics of global politics, with emphasis on contemporary problems and processes. Open to freshmen with permission of the instructor. Instructor to be announced. M W 2:10-3:25.

§V3411x, V3412y. History of Political Thought (formerly 13-14).

Analysis of major political writings from Plato to the present. Emphasis is on a comparison of basic ideas and concepts. Course 13 or V3411 is prerequisite to Course V3412. Section I Professors Franklin (V3411) and Deane (V3412). M W 11-12:15. Section II Professor Dalton. Tu Th 2:10-3:25.

Specialized Courses American Government and Politics

[15y. The Making of American Foreign and Military Policy.

Professor Davis. Not given in 1973-74.]

§V3316x. The American Presidency. [5]

Analysis of the growth of presidential power, the creation and use of the institutionalized presidency, presidential-congressional and presidential-bureaucratic relationships, and the president and his national security apparatus. Prerequisite: Course 1 or equivalent. Professor Pious. M W 2:10-3:25.

§25. The Judicial Process. [6]

Development of the role of the Supreme Court in the American political system. Emphasis on analysis of landmark decisions from 1790 to 1972. Prerequisite: Course 1 or a course in American history or permission of the Barnard chairman. Professor Reid. Tu Th 9:10-10:25.

§26. Problems in Civil Rights and Liberties. [6]

Analysis of the political and legal context for current issues in freedom of speech and religion, racial discrimination, the right to privacy, and criminal law enforcement. Prerequisite: Course 1. Professor Reid. Tu Th 9:10-10:25.

§C3399x. The Supreme Court and American Constitutional Law.

The role of constitutional law and the judiciary in the American political system, with emphasis on the United States Supreme Court.

Issues of civil liberties, political trials, federalism, and economic regulation are discussed. Students write a case study of a recent Supreme Court decision. Prerequisite: Course 1. Professor Westin. M W 11-12:15.

§*C3400y. Colloquium on the Law and Politics of Civil Liberties.

After a survey of existing law on civil liberties and rights, issues of democratic theory, the role of groups in bringing test cases, the dynamics of civil liberties litigation will be discussed, using case studies involving political surveillance, racial equality, church-state issues, consumer rights, women's rights, and other issues. Prerequisite: Junior standing, at least one course in American government, and permission of the instructor. Professor Westin. W 10-11:50.

§*27. Colloquium on the Content of American Politics. [0]

Readings, discussions, and reports on the major policy conflicts in American national politics in recent decades and especially since 1960. Prerequisite: Course 1 or V3313 and permission of the instructor. Professor Hannigan. Tu 2:10-4.

§*28. Colloquium on Congressional Politics. [0]

The interrelations of structure, process, and policy output in the American Congress, including the legislative role of the President. First-hand examination of hearings, reports, debates and voting patterns, and preparation during reading period of case studies on individual bills. Prerequisite: Course 1 or V3313 and permission of the instructor. Instructor to be announced. Th 2:10-4.

F3311x. The American Party System.

Ways by which interests outside government achieve political influence at the national level; factors which promote stability and legitimacy in an age of rapidly growing demands. Primary emphasis on political parties, with attention to political participation, interest groups, and electoral behavior. Prerequisite: Course 1 and junior standing. Mr. Finch. M W 4:10-5:25.

§C3312y. Executive Politics and Decision Making.

An analysis of interagency politics and bargaining within the executive branch of the national government of the U.S. and its implications for the public policy process. Prerequisite: Course 1. Professor Rich. M W 2:10-3:25.

§W3315x. Urban Political Problems and Policies.

An analysis of urban political problems stressing urban stratification, power relationships, and substantive policy-making. Topics include the politics of housing and urban renewal, education, poverty and welfare, and the establishment of new mechanisms of urban participation. Prerequisite: V3313. Professor Katznelson. M W 11-12:15.

§*29y. Colloquium on Selected Topics in Urban Politics. [0]

Readings, discussions, and reports on such problems as the fiscal implications of city-federal relations, decentralization, suburbanization, and metropolitanism. Prerequisite: V3313 or Urban Studies 46 and permission of instructor. Professor Merget. Hours to be arranged.

- Urban Studies**
- 35. Colloquium-Workshop in Urban Administration and Management. [0]**
Readings, discussions, and reports on the processes of administration and management in urban organizations. Particular attention is given to such topics as executive leadership and control, decision-making, organizational theory, budgeting, and planning. Prerequisite: Political Science V3313 or Urban Studies 46. Professor Merget. Th 2:10-4.
- §V3407y. Colloquium on Urban Black and Minority Politics.**
Comparative analysis of the politicization of urban ethnic groups, with emphasis on the emerging political patterns and problems of black urban communities. Open only to Barnard and General Studies students. Prerequisite: Course 1 or V3313y, and junior standing. Enrollment limited, sign-up sheet on bulletin board, 408 Lehman. Professor Hamilton. Th 10-11:50.
- *C3715y. Colloquium on the Politics and Administration of Ecological Problems.**
Readings and research on the politics of environmental control. Analysis focuses on alternative political processes and policy outcomes for air, land and water resources, and space utilization. Prerequisite: Course 1 and permission of the instructor. Instructor to be announced. Tu 2:10-4.
- Foreign Governments and Politics**
- [*17. Colloquium on Comparative Politics of Western Europe.**
Not given in 1973-74.]
- [19. Soviet Politics.** Professor Juviler. Not given in 1973-74.]
- §*20. Colloquium on Communism and Revolutionary Change. [0]**
Readings, discussions, and oral and written reports on the development of Communist and other revolutionary movements in the twentieth century; consideration of questions raised by theoretical and reflective works on the causes, nature, and consequences of recent revolutions and counterrevolutions. Prerequisite: Course 2 or 7 or 19 and permission of the instructor. Professor Juviler. Th 2:10-4.
- §*21. Colloquium on the Politics of Social Change in the U.S.S.R. [0]**
Discussion, analysis, and comparison of selected case studies of the Soviet regime's responses to issues of social change. Prerequisite: Course 2 or 7 or other formal study of Soviet government and permission of the instructor. Professor Juviler. Th 2:10-4.
- §23. African Politics. [7]**
Comparative analysis of selected African political systems, with emphasis on the problems of development and modernization. Prerequisite: Course 2 or permission of the instructor. Professor Reid. Tu Th 10:35-11:50.
- §24. Asian Politics. [7]**
Comparative analysis of Asian national experiences and political ideas, with particular attention to China and India. Prerequisite: Course 2 or permission of the instructor. Professor Dalton. Tu Th 10:35-11:50.
- §W3512y. Democratic Politics in Western Europe.**
A comparative analysis of politics in Great Britain, France, and

Germany with emphasis on political culture, governmental institutions, parties, pressure groups, policy-making in modern industrial societies, and political changes. Prerequisite: Course 2. Professor Kohl. M W 2:40-3:55.

G4461x. Latin American Political Behavior.

Comparative analysis of major groups and processes in Latin American politics. Prerequisite: Course 2 and junior standing. Mr. Fagan. Tu 2:10-4.

G4487x. The Dynamics of Soviet Politics.

The role of Marxism-Leninism in Soviet politics; the role of the Communist Party in Soviet government and society; problems of industrialization, stages of development and political change; the balance of political forces and pressures in a totalitarian state. Prerequisite: Course 2 or 7 and junior standing. Dr. Bialer. Th 10-11:50.

Political Theory

***16. Colloquium on Personality and Politics. [0]**

Readings, discussion, and research on the acquisition of political attitudes and the function various forms of political participation serve in the fulfillment of personal needs. Prerequisite: Some course in political science and permission of the instructor. Professor Hannigan. W 3:10-5.

§31y. Colloquium on American Political Thought. [0]

Readings, discussion, and research on relationships among political attitudes of intellectuals, social scientists, bureaucrats, and politicians, on the role of political leadership in developing various thematic statements for mass perception, and on the role of bureaucratic intellectuals in developing images for elite audiences. Special attention is paid to political thought involving economic regulation and redistribution, civil rights and liberties, and American "destiny." Prerequisite: Course 1 and permission of the instructor. Professor Pious. Tu 2:10-4.

§33. Colloquium on Concepts of Political Theory. [0]

The classical concerns of political theory, as they are expressed in the most recent writings. Problems analyzed will include: the significance of the concept of human nature for a study of political thought; the bases of right leadership; the nature of power and authority; methods of violent and nonviolent political social change. Prerequisite: V3411 or V3412 and permission of the instructor. Professor Dalton. M 2:10-4.

International Relations and Foreign Policy

§18. Colloquium on Problems in International Politics. [0]

Readings, discussions, and reports on selected problems in international politics. Topic for 1974 to be announced. Prerequisite: Permission of the instructor. Instructor to be announced. Tu 2:10-4.

C3614y. Approaches to World Order.

Philosophical perspectives and the social, economic, and political conditions underlying different approaches to world order, with an accent on issues rather than institutions. Prerequisite: Course 11 or equivalent. Professor Cox. Tu 4:10-6.

§C3655x. American Policies in World Politics.

An analysis of the major revolutions in American foreign policy; special attention to World Wars I and II, and the response to nuclear weapons. Prerequisite: Course 11. Professor Schilling. Tu Th 11-12:15.

§C3656y. American Foreign Policy: Process and Problems

The politics of policy-making; case studies on the making of policy and how this process affects the substance of policy; some current and prospective policy problems in Europe and Asia. Prerequisite: Course 1 and junior standing. Professor Hilsman. Lecture: M 4:10-6. Discussion groups: Tu 9-9:50 or 1:10-2.

Courses for Majors and Concentrators Only

Admission to particular sections of the senior seminar is limited. During Spring pre-registration students must obtain departmental approval for the section desired in the senior seminar.

[*45y. Junior Colloquium on Concepts and Methods.

Not given in 1973-74.]

G4910y. Quantitative Methods in Political Science.

Techniques and methodologies currently employed in political science. Scientific explanation and the logic of social science, concept formation and research design, data collection and processing, statistical measures for political analysis, questionnaire construction and survey research, indexes and scaling, multivariate analysis, reporting research findings, and research and theory. Prerequisite: junior standing. Professor Finch. M 10-11:50.

V3711x-V3712y. Senior Research Seminar in American Politics.

Discussions, conferences, and the writing of a senior essay on selected topics of American public policy and politics. Section I concentrates on urban and congressional politics. Section I Professor Caraley and Mrs. Davidson. Th 4:10-6. Section II Instructor to be announced. W 4:10-6. Section III Professor Pious. W 4:10-6.

Note: Admission to Section II also requires permission of the Barnard chairman.

61-62. Senior Research Seminar.**[0]**

Discussions and conferences on the researching and writing of the senior essay. Section I (same as V3711x-V3712y). Section II Professor Reid. Tu 4:10-6. Section III Professor Juviler. Th 4:10-6. Section IV Professor Dalton. W 4:10-6. Section V Dr. Fox and Instructor to be announced. Tu 4:10-6.

Graduate Courses

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

<i>Professor</i>	Richard P. Youtz (Chairman; 415F Milbank Hall)
<i>Associate Professor</i>	Barbara S. Schmitter
<i>Assistant Professors</i>	Edward S. Cobb, George W. Kelling, Thomas Biddle Perera, Susan R. Sacks, Frances F. Schachter
<i>Adjunct Assistant Professors</i>	Donald E. Hutchings, Adelbert Jenkins
<i>Instructor</i>	Sandra F. Stingle

Special facilities of the Department include the Hollingworth Laboratories and the following:

The Center for the Study of Early Childhood Development, opened in 1971, now has Dr. Frances Schachter as Director and Mrs. Anne Quinn and Mrs. Patricia Shimm as Associate Directors. Students taking relevant courses work with children ranging from late-infancy to nursery-school age.

A Demonstration Laboratory Course in Learning (Course 5) using the Teaching Apprentice System of Instruction (TASI) is given by Dr. Edward S. Cobb in connection with his Teaching Apprentice Seminar (Course 49).

The Department's Psychophysiology Laboratory is under the direction of Dr. Thomas Perera. Students in related courses conduct research on the electrical activity of the human nervous system as it relates to higher mental processes.

A major in psychology: The student majoring in psychology studies the basic principles, methods, and findings of psychology and is introduced to their most important applications.

The groupings of courses given below are arranged in accordance with varying interests; the student should select one of the plans (a), (b), (c), or (d). In addition to the offerings listed in the announcement, advanced senior students with special interests may take appropriate courses in graduate school.

(a) General major: A student completing this major will have a good general background for activities in psychology or related fields, such as education, business, school psychology, psychometrics, personnel and social work, and similar areas. The major may be completed by fulfilling the following requirements:

Psychology: Courses 1, 5, 8, 9, one, or both, of 57 and 68; one other laboratory course, and other courses selected in consultation with the major adviser to complete the required 8 courses in the department.

Other fields: One course in philosophy, anthropology, or computer science; a one-year laboratory course in biology, physics, or chemistry.

(b) It is suggested that students who plan to obtain postgraduate professional training in clinical psychology, school psychology, vocational or rehabilitation counseling, or educational guidance should, in addition to the courses required for the major, include Courses 12, 27, and two of the following: Courses 21, 25, 38, 44.

(c) Students interested in professional work in business or personnel should add the following to the requirements for the general major: Course 12. Economics 1, 2; 17, 18; and 19 may be substituted for work in other fields.

(d) Students who wish to take postgraduate work in experimental psychology should add the following to the requirements for the general major: Course 17. In other fields work should include: full-year laboratory courses in two of the following: biology, physics, or chemistry; two semesters of calculus.

The major examination: This consists of the Undergraduate Record Examination in psychology. Students fulfilling any one of the four plans will have completed preparation for the major examination.

Laboratory Science Requirement: The college requirement in laboratory science may be satisfied by taking any two of the following courses: 5, 8, 12, 17, 27, 30.

Notice: Because of anticipated additions to the department in both personnel and courses, students are asked to consult a revised announcement before final registration.

1x (or 1y). Introduction to Psychology. [11]

An introduction to the chief facts, principles, and problems of human behavior, through systematic study of a text, lectures, exercises, brief participation in a current investigation, and reading in special fields. Prerequisite for all other courses. Professors Cobb, Hutchings, Perera, and Youtz. Section I M W F 9. Section II M W F 10. Section III M W F 11. Section IV Tu Th 9:10-10:25.

5. Psychology of Learning. [8]

The basic methods, results, and concepts in the experimental analysis of learning. Laboratory work consists of experiments and demonstrations which mostly employ albino rats as subjects. Preparation of experimental reports is a major part of the course. Assignments deal mostly with experiments on infra-human organisms. Prerequisite: Course 1 or permission of the instructor. Professor Cobb and assistants. Lec. Tu Th 11. Lab. (1 hour lecture, 2 hours projects) Tu 2:10-5, W 1:10-4, Th 2:10-5.

8. Perception. [8]

An introduction to the problems, methods and results of studies in perceptual behavior. The literature will be surveyed; key experiments will be discussed in detail. Problems of definition and experimental method will be emphasized. In the laboratory students will conduct a series of typical experiments and will prepare systematic reports of their results. Prerequisite: Courses 1 and 5 or permission of the instructor. Not open to freshmen. Professor Perera and assistants. Lec. Tu Th 11. Lab. (1 hour lecture, 2 hours projects) W 1:10-4, Th 2:10-5.

9x (or 9y). Statistics. [3]

An introduction to statistics and its applications to psychological research. Basic theory, conceptual underpinnings, and the most common statistics will be covered. The laboratory will be devoted to discussion of weekly problem assignments. Prerequisite: Course 1 or permission of the instructor. Professor Kelling and assistant. Lec. M W F 11. Lab. Tu 2:10-4, W 2:10-4.

12. Psychological Measurement. [2]

Introduction to test theory, including concepts of item construction, standardization, reliability, validity, and motivation. Emphasis is on design and research related to major categories of current tests. Laboratory projects will be concerned with constructing and evaluating test items under experimental conditions, with assessing various methods of test administration, and with the quantitative procedures necessary for such evaluations and assessments. Prerequisite: Course 1 and one course in statistics or permission of the instructor. Professor Schmitter and assistant. Lec. M W 10. Lab. (1 hour lecture, 2 hours projects) W 2:10-5, Th 2:10-5.

[16]. Theories of Learning. Professor Cobb. Not given in 1973-74.]

17. Physiological Psychology. [4]

An introduction to the study of the relationships between bodily processes and behavior. Emphasis is placed upon the basic anatomy and physiology of sensory and motor functions, motivation, emotion, learning, and behavior disorders. The laboratory consists of individual and group experiments in these areas of study, and exercises on the anatomy of sense organs and the brain. Prerequisite: Course 1 or permission of the instructor. Professor Perera and assistant. Lec. M W 1:10-2. Lab. (1 hour lecture, 2 hours projects) Tu 2:10-5, W 2:10-5.

21. Abnormal Psychology. [2]

The field of psychopathology, history, more common forms of mental inadequacy and disturbance and their psychological interpretation, including principles of mental hygiene and psychotherapy. Each class takes two trips to institutions for demonstrations of psychoses and deficiencies. Open to juniors and seniors who have had Course 1 or permission of the instructor. Professor Youtz. M W 10.

25. Psychology of Personality. [6]

Major theories of personality, implicit personality theory, and current research utilizing personality variables will be covered.

Special attention is given to the personality theory of ordinary men. Prerequisite: Course 1 or permission of the instructor. Professor Kelling. Tu Th 9:10-10:25.

- 27x (or 27y). Developmental Psychology. [4]**
 Child development from conception to adolescence. An overview of cognitive, linguistic, perceptual, motor, social, and personality development during infancy, the preschool years, middle childhood, and adolescence. The laboratory offers an opportunity for direct contact with children; major areas of research at each level of development are covered. Preference to juniors and seniors. Prerequisite: Course 1 or permission of the instructor. Professor Schachter and assistants. Lec. M W 1:10. Lab. M 2:10-5, Tu 2:10-5.
- 30. Psychology of Thinking. [3]**
 Survey of contemporary experimental approaches to the understanding of concept formation and problem-solving behavior, derived from learning theory, psycho-linguistics, logic, and information theory. The laboratory will consist of experiments and demonstrations of thinking behavior in animals, children, and adults. Prerequisite: Course 5 or permission of the instructor. Professor Cobb and assistant. Lec. M W 11. Lab. (1 hour lecture, 2 hours projects) Tu 2:10-5, W 1:10-4.
- 34x. Educational Psychology. [9]**
 An examination of major theories and issues in the literature on human psychological development and learning fundamental to the educative process; an exploration of their educational implications and applications. Prerequisite: Course 1 or permission of the instructor. Professor Sacks. Tu Th 2:10-3:35.
- 38. Social Psychology. [6]**
 An introduction to the study of social behavior. Among the topics considered are social learning, interaction, group behavior, and verbal behavior. Experimental contributions to the understanding of social phenomena are emphasized. Prerequisite: Course 1 or permission of the instructor. Professor Kelling. Tu Th 9:10-10:25, and conference hour in connection with a project or paper.
- 39. Seminars on Special Topics: Psychological Analysis of Racism. [0]**
 Psychological factors influencing the development and expression of racist attitudes and actions, with special references to black-white confrontation. Emphasis on psychodynamic studies of hostility, anger, self-concept, mechanisms of defense, and other factors that produce and reduce racism. Each student will write an original research paper. Limited to 20 students. Prerequisite: Courses 1 and, if convenient, 25, or written permission of the instructor. Professor Jenkins. Th 4:10-6.
- 42. Child-Rearing: A Survey of Alternative Practices. [7]**
 Past and current theories, methods, and implications of child-rearing practices examined through studies of parent-child relationships, family structures, sex-role differentiation, and school and community influence. Prerequisite: Course 1 or permission of the instructor. Limited to 30 students. Professor Sacks. Tu Th 10:35-11:50.

44. **Psychoanalysis from Freud to Laing.** [7]

Psychoanalysis from Freud and the Freudians (Erikson, A. Freud, Hartmann) to the early revisionists (Jung, Adler, and Reich), the neo-psychoanalysts (Fromm, Sullivan and Horney) and the existential analysts (Binswanger, Boss, May and Laing). Open to juniors and seniors who have had Course 1 or permission of the instructor. Professor Schachter. Tu Th 10:35-11:50.

45x-y. **Projects in Child Development.** [0]

The Barnard Center for the Study of Early Childhood Development provides the focus for this practicum and research seminar in developmental psychology. Students will assist for one morning a week and prepare a research paper on some aspect of early cognitive, linguistic, social, or personality development. A few additional students will undertake research projects only. The seminar will meet bi-weekly for both semesters; course credit will be given for one semester (Spring). Number of students limited. Prerequisite: Course 27 or permission of the instructor. Professor Schachter. Hours to be arranged.

Interdepartmental

Course 1y. **Female and Male: An Interdisciplinary Approach.** [7]

Professors Komarovsky, Ehrenfeld, and representatives of the Departments of Anthropology and Psychology. May not be counted toward major. See page 66.

48x (or 48y). **Individual Projects.** [0]

Research projects will be planned in consultation with members of the department. Open to majors who have had Courses 5 and 8, on written permission of the member of the department who supervises the project. Members of the Department. Hours to be arranged.

49. **Teaching Apprentice Seminar.** [0]

An intensive analysis of the principles of conditioning covered in Course 5. In addition to supplementary materials, students read the material assigned to Course 5 students, prepare Reading Evaluation Forms, and demonstrate in the seminar superior comprehension of the subject matter. Individual work with Course 5 students. Prerequisite: Course 5 and permission of the instructor. Professor Cobb. M 2:10-4, Tu 11-11:50.

57. **Systems of Psychology.** [0]

An exploration of principal contemporary problems in psychology in terms of their background and present status. Each student prepares a paper reporting on the background and present status of a problem, theory, or important person. Prerequisite: Courses 5 and 8 or the equivalent. Professor Youtz. Hours to be arranged.

68. **Case Histories in the Design of Experiments.** [8]

Discussion of stages in the experimental development of psychological concepts. Nonstatistical analysis of procedures and justifiable conclusions at stages of: speculation, measurement, observed relation, experiment, and theory construction. Application to articles in current journals, both experimental and clinical. Each student will choose an area of interest and prepare a paper reporting on its origins and present status. Prerequisite: Course 5 or 8 or permission of the instructor. Professor Youtz. Tu Th 11.

The following Barnard courses may be of interest to majors. Some have prerequisites.

Anthropology V3027y (Culture and the Individual).

Biological Sciences 8 (Ecology)

[Biological Sciences 20 (Laboratory in Animal Behavior). Not given in 1973-74.]

Linguistics V1101x, V1102y (Introduction to Linguistics)

Sociology 46x (Social Structure and Personality)



<i>Professors</i>	Theodor H. Gaster, ¹ Barry Ulanov (English)
<i>Adjunct Professors</i>	Albert W. Sadler, Samuel L. Terrien
<i>Adjunct Associate</i>	
<i>Professor</i>	Christopher George
<i>Assistant Professors</i>	Elaine H. Pagels (Chairman; 219B Milbank), John B. Snook
	Other officers of the University offering courses listed below:
<i>Professors</i>	Joseph L. Blau, J. A. Martin, Jr.
<i>Adjunct Professor</i>	William V. Dych
<i>Assistant Professors</i>	Carl Hester, Wayne Proudfoot, Robert Somerville, Javier Teixidor
<i>Lecturer</i>	Carol Christ
<i>Instructors</i>	Frederich B. Underwood, Paul Valliere

¹ Emeritus

The purpose of the program is (a) to introduce the field of religion in general; (b) to present the thought, documents and history of the major religious systems of the East and West; and (c) to give students an insight into the distinctive approach of each towards the analysis of the human condition and the solution of its problems. The courses are designed not only for those who may wish to specialize in religion, but also as a cross-fertilization of general studies in the humanities, e.g. in history, literature and philosophy.

The program of study for a major in religion is to be planned in consultation with members of the department by the end of the sophomore year. Ten semester courses are required, with the exact distribution to be determined by each student in consultation with departmental advisers. Majors will be encouraged to take one or two introductory courses, a variety of courses in Eastern and Western religions and in the theory and function of religion. All will be required to take two seminars and to write a senior essay in conjunction with one or both of these. Majors will also be expected to organize their programs to assure them of some direct experience and understanding of the disciplines involved in the study of religion, such as anthropology, sociology, psychology, literary analysis, philosophy, or history.

Students of religion usually fall into two groups, (1) those who pursue their study as a way of opening to themselves a large part of the liberal arts curriculum, touching many disciplines and methodologies of learning, and (2) those who have found special areas of interest and look forward to doing graduate work in religion. For both groups, a reading knowledge of such

languages as Greek, Latin, Hebrew, Arabic, Chinese, or Sanskrit will be useful; for the second group, it is essential.

General Introduction and Survey

§V1101x, V1102y (or V1102x, V1101y).

Introduction to the Study of Religion.

Varieties of religious expression and historical forms of religious life. Autumn Term: Myth and ritual; American Indian religion; the religion of Israel (Old Testament), and the early Christian movement (New Testament). Spring Term: religions of the East.

Barnard: Section II Autumn Term: Professor Pagels. M W F 10. Spring Term: Professor Sadler. Th 2:10-3:25, and hour to be arranged.

Columbia: Section I Autumn Term: Mr. Valliere; Spring Term: Mr. Underwood. M W 11-12:15.

§V1102x, V1101y. (For those wishing to begin the course with the study of Eastern religions.)

Barnard: Section IV Autumn Term: Professor George; Spring Term: Professor Snook. Tu Th 10:35-11:50.

Columbia: Section III Autumn Term: Mr. Underwood; Spring Term: Mr. Valliere. Tu Th 5:25-6:40.

§V1001x or y.

Major Topics in the Study of Religion.

Introduction to the theory and practice of religion, East and West, with special attention to such topics as myth and ritual, reason and revelation, law and community, and mysticism.

Barnard: V1001x, Section I Professor Snook. Tu Th 9:10-10:25. V1001y, Section I Professor Gaster. Th 9:10-10:25, and hour to be arranged.

Columbia: V1001x, Section II Professor Proudfoot. M W 1:10-2:25. V1001y, Section II Professor Proudfoot. M W 1:10-2:25. Section III Professor Martin. Tu Th 10:35-11:50.

Bible

§W3201x.

Introduction to the Old Testament.

An introduction, by critical methods, to the religious history and literature of Israel in the Old Testament period, with illustration from Ancient Near Eastern sources.

Barnard: Section I Professor Terrien. Tu Th 9:10-10:25.

Columbia: Section II Professor Teixidor. Tu Th 6:10-7:25.

§V3202y.

Introduction to the New Testament.

An introduction, by critical methods, to the religious history and literature of the Christian movement in the New Testament period.

Barnard: Section I Professor Pagels. M W F 10.

Columbia: Section II Instructor to be announced. Tu Th 6:10-7:25.

Archaeology- Religion

Archaeology of the Bible.

§W4169x-W4170y.

The Palestinian sites which provide important information concerning the background of Biblical religion. Autumn Term: The Middle Bronze and Late Bronze ages. The period of the Judges. Spring Term: From the beginning of the monarchy to the conquest by Alexander the Great. Professor Teixidor. W 4:10-6.

W3212y.

Prophecy in Ancient Israel.

Exploration of the phenomenon of prophecy by close reading of the classical prophets with reference to modern critical scholarship and attention to poetic style. Miss Christ. M W 4:10-5:25.

Western Religions Christianity

§14.

From Paganism to Christianity.

[7]

A consideration of the origins of Western religious traditions. The cult of the state, mystery religions, astrology, Zoroastrianism, gnostic movements. The emergence of new Jewish and early Christian movements. Professor Pagels. Tu Th 10:35-11:50.

[§15, 16.

History of Religious Thought in the West.

Not given in 1973-74.]

History

Medieval Church History.

§W4263x-W4264y.

The institutional, doctrinal, and social development of the medieval church from the conversion of Constantine to the fifteenth-century conciliar struggles. Professor Somerville. Tu Th 10.

W3220x.

Studies in Religion and Culture: 16th and 17th Centuries.

The Protestant Reformation in its several forms; the Roman response at Trent and the subsequent shaping of Protestant and Catholic thought through the seventeenth century. Professor Hester. Tu Th 2:10-3:25.

W3222y.

Studies in Religion and Culture: 18th and 19th Centuries.

The relation between religion and culture, with special attention given to theories of religious development (personal, social, cultural). Readings will include Hume, Edwards, Jefferson, Rousseau, Kant, Hegel, Schleiermacher, Coleridge, Bushnell, Emerson, and others. Professor Proudfoot. Tu Th 2:10-3:25.

[\$W3224y.

Contemporary Religious Thinkers.

Not given in 1973-74.]

[\$W3232y.

Eastern Christian Thought.

Not given in 1973-74.]

G6346y.

Early Eastern Christianity.

Controversies in early Christian theology, especially between spokesmen for the "orthodox" majority (e.g., Justin, Irenaeus, Origen) and their Gnostic opponents (Marcion, Basilides, Valentinus). Crucial questions include "literal" vs. "symbolic" interpretations of Christ and the emergence of "orthodox" vs. "heretical" Christianity. Apocryphal and patristic sources read in translation or in the original. *Open to undergraduate majors with permission of the instructor.* Professor Pagels. M W 2:10-3:25.

§W3235y. Catholic Theology since Vatican II.

An analysis of developments in Roman Catholic theology during and subsequent to the Second Vatican Council. Special attention to questions of the Church (the relationship of individual and community), conscience (the relationship of freedom and authority), and contemporary Christian life (the relationship of contemporary morality and traditional moral principles). Lectures and discussion. Professor Dych. M W 4:10-5:25.

W3239y. Russian Religion.

Selected topics in the religious life of Russia and related areas of Eastern Europe and North Asia from early times to the present: shamanism, Orthodox Christianity, folk religion, sectarianism, modern Russian religious thought, and religion in Soviet society (including Jewish and Islamic communities). Mr. Valliere. M W 4:10-5:25.

§64. The History of Religion in America. [6]
(History 64). Religious thought and institutions from Colonial times to the present; their influence on American political and social history through the work of representative individuals. Professor Snook. Tu Th 9:10-10:25.

W4235y. Monasticism.

Ascetic life in Syria, Mesopotamia, and Persia. Forms of monasticism in Europe and the Near East, with special attention to Egypt. Professor Teixidor. M 2:10-4.

Judaism

§W4237x-W4238y. History of Judaism.
History of the Jewish religion from its beginnings to contemporary manifestations in Israel and the United States. Autumn Term: Early background and formation of Judaism. Spring Term: From the Rabbinic period to the present. Professor Blau. Tu Th 4:10-5:25.

[§W3214y. Introduction to Talmudic and Geonic Literature.
Not given in 1973-74.]

Islam

[§56. Islam. Not given in 1973-74.]

Eastern Religions

Hinduism

§53. History of Hinduism.
A survey of the philosophies and history of Hinduism. The Vedic and Brahmanic periods. The Upanishads. Vedanta. Yoga. The darsanas. Modern developments. Instructor to be announced. Hours to be arranged.

W3260y. Classical Texts in Eastern Religion.

Topic for 1973-74: Vedanta. An examination of the development of the thought of the Upanishads: a) the Brahmanical background, b) the major Upanisads and Bhagavad Gita, and c) the classical interpretations: Sankara's non-dualism and Ramanuja's qualified non-dualism. Mr. Underwood. M W 2:10-3:25.

Buddhism

W3252x. History of Buddhism.
Change and continuity in the development of Buddhist thought and

institutions during the expansion of Buddhism from India to Tibet, China, and Japan. Mr. Underwood. M W 2:10-3:25.

§54. Mahayana Buddhism. [7]

The Abhidharma context: the perfection of wisdom, the Bodhisattva. Vajrayana Buddhism: wisdom, method, ritual, iconography. Buddhism in China and Japan. Readings include original sources in translation. Professor George. Tu Th 10:35-11:50.

Chinese Religions

[§W3253y. Chinese Religious Thought.

Not given in 1973-74.]

Japanese Religions

[§W3254x. Japanese Religious Thought.

Not given in 1973-74.]

Ancient Near Eastern Religions

[§31. Ancient Near Eastern Religions.

Professor Gaster. Not given in 1973-74.]

§G6312y. Ancient Near Eastern Religions.

A comprehensive study of the religious ideas, practices, institutions and writings of the Egyptians, Mesopotamians, Hittites, Canaanites and Israelites. The texts are read in translation. *Open to religion majors*. Professor Gaster. Th 4:10-6.

Religion and Culture

§25. Religion in Contemporary Society. [9]

Religious groups in the contemporary world—the needs they serve, their strengths and weaknesses in the formation and maintenance of identity. Old and new values in relation to traditional and innovative religious groups, and the religious element in national culture. Professor Snook. Tu Th 2:10-3:25.

§26. Religion in Contemporary Culture. [9]

An examination of recent developments in religious thought and expression, with emphasis on such topics as the impact of science and technology, the revision and reformulation of traditional dogma and doctrine, new currents in theology, creation of new myths, the trend to secularization, and revival of interest in the occult. Professor Hester. Tu Th 2:10-3:25.

W3307x. Women and Religion.

Exclusion and participation of women and the “feminine” in religious groups and symbol systems, ancient and modern, East and West; critique of patriarchal religion and values in the West; myths of goddesses, resources for change. Miss Christ. M W 2:10-3:25.

W3314x. Religious Ethics.

Topic for 1973-74: War and peace in Jewish and Christian thought. Jewish and Christian attitudes toward war and peace. A survey of the classical traditions (holy war, pacifism, just war), followed by attention to newer elements in the discussion: utopianism, revolutionary violence, and militant non-violence. Mr. Valliere. M W 4:10-5:25.

W3318y. Story and Religious Sensibility.

Topic for 1973-74: Nothingness and transcendence. The religious imagination, vision, and sense of reality in the form and content of selected twentieth century novels. Miss Christ. Tu Th 10:35-11:50.

Anthropology**V3042y. Religion in Anthropological Perspective.**

Ideological systems of simple or preindustrial cultures. Relations between religion and other aspects of culture. Professor Klass. Tu Th 1:10-2:25.

Seminars *Students who are not religion majors must obtain permission of the instructor.*

W3501x. Majors' Colloquium.

Case studies of the mythology and practice of groups organized around charismatic leaders, experimental social and psychological ideas, and the new morality. Professor Snook. W 3:35-5:25.

W3503x, W3504y. Religious Thought.

Either term may be taken separately.

W3503x. I. The World of Myth.

The nature of myth, study of representative myths of East and West. The science of mythology. Myth today. Professor Gaster. Th 3:35-5:25.

II. Edwards, Emerson, and James.

A consideration of their major work in the context of the history of religion in America, with special attention to conceptions of the self, freedom of the will, religious language, and the nature of religious experience. Professor Proudfoot. Tu 4:10-6.

III. Gnosticism: Ancient and Contemporary.

Investigation of newly discovered Gnostic gospels: *Gospel of Truth*, *Gospel of Mary*, *Sacred Book of the Great Invisible Spirit*. Analysis of the development of Gnosticism, and relation to later forms of gnostic thought up to the present. Professor Pagels. Tu 3:35-5:25.

IV. Martin Buber: Prophet, Poet, Philosopher.

The writings of Martin Buber, with particular attention to his views of God, the person, the world, Hasidism, Judaism, etc. Relation between form and content in his writing; his objections to philosophy and theology as they are traditionally conceived. Miss Christ. Th 4:10-6.

W3504y. I. Religious Experience.

An exploration of religious experience as it has been interpreted by philosophers, psychologists, and theologians, and as it has been understood in the arts, politics, and in religious cults. Professor Ulanov. M 2:10-4.

II. The Protestant Ethic and the Pleasure Principle.

Two central ideas of Max Weber and Sigmund Freud as they have affected our thinking about religion and morality. Professor Snook. Tu 3:35-5:25.

III. Varieties of Occultism.

The secret traditions of occidental and oriental religions, ancient and modern. Professor Blau. M 2:10-4.

Related Courses in other Departments:

Philosophy

G4026x.

Hellenistic Jewish Philosophy.

Philosophy

G4109y.

Spinoza.

Anthropology

G4114x.

Religion in Anthropological Perspective.



<i>Professor</i>	Richard F. Gustafson ¹ (Chairman; 226B Milbank Hall)
<i>Assistant Professor</i>	Marina Ledkovsky (Acting Chairman, Autumn Term; 226E Milbank Hall)
<i>Associates</i>	Anatol K. Sapronow, Zoya Trifunovich
<i>Instructors</i>	Marianna Sapronow, Anya Luchow

Other officers of the University offering courses listed below:

<i>Professors</i>	Robert L. Belknap, William E. Harkins, Robert A. Maguire, Rufus W. Mathewson, Jr., Harold B. Segel
<i>Assistant Professor</i>	John Malmstad
<i>Associate</i>	Irene Balaksha
<i>Instructor</i>	Lynn Fisher

¹ Absent on leave, Autumn Term.

The Russian Department offers courses in the language, literature, and culture of Russia. Besides a full four-year sequence in language work, there are specialized courses in major Russian authors and important periods in Russian literature and philosophy. Students should consult the department chairman in choosing language courses beyond the second year. For those who know no Russian, the department also gives a series of courses in Russian literature taught in English.

The major in Russian at Barnard is a liberal arts program designed to help the student obtain reasonable fluency in the spoken and written language, a reading command of Russian adequate for interpreting texts, and a comprehensive knowledge of Russian literature and culture, especially of the nineteenth and twentieth centuries. Students will be encouraged to take one year of Russian history and to select relevant courses in philosophy, art, music, and other literatures. The requisites to the major, in most cases to be completed before the junior year, are Russian V1202y (or its equivalent) and usually Russian V1225x, V1226y. The minimum for the major is 8 courses. No courses with readings exclusively in English may be included in the minimal major program. Normally majors are required to take Russian V3333x, V3334y and two fourth-year language courses. The senior requirement may be fulfilled by taking one or two semesters of the Senior Seminar or by writing a Senior Essay. For further information, consult the departmental chairman.

Foreign Language Requirement for the Degree: All students must take a placement examination before entrance. This examination tests the student's knowledge of grammar, her

comprehension of written and spoken Russian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others must complete Russian V1202y or any course beyond that level.

Language Courses

V1101x-V1102y. Elementary Course.

Grammar, reading, composition. Oral practice in small groups. Language analysis: Professor Malmstad, Mrs. Luchow, Miss Balaksha, and staff. Section I M W F 10, Section II M W F 12, Section III M W F 1:10. Oral Practice: Mr. and Mrs. Sapronow and staff. Section I M W F 9, Section II M W F 11, Section III M W F 1:10, Section IV M W F 2:10. Other hours to be arranged.

V1201x-V1202y. Intermediate Course.

Reading, composition, grammar review. Oral practice in small groups. Language laboratory work required. Prerequisite: Course V1102y (formerly Course 2) or the equivalent. Language analysis: Mrs. Trifunovich (course chairman), Miss Balaksha, and staff. Section I M W F 10, Section II M W F 12, Section III M W F 1:10. Oral Practice: Mr. and Mrs. Sapronow and staff. Section I M W 10, Section II M W 11, Section III Tu Th 9, Section IV Tu Th 10, Section V Tu Th 11. Other hours to be arranged.

[V1211x-V1212y. Intermediate Course: Rapid Reading.

Not given in 1973-74.]

V3331x, V3332y. Readings in Russian Literature.

Emphasis on conversation and composition. Reading and discussion of selected texts from nineteenth and twentieth-century Russian literature. Lectures, papers, and oral reports. Conducted entirely in Russian. Prerequisite: two years of Russian or permission of the instructor. Mrs. Fisher. M W F 1:10. Oral practice (optional). Mr. and Mrs. Sapronow. Two hours to be arranged.

[V3335x, V3336y. Advanced Language Course, Third Year. Not given in 1973-74.]

V3441x-V3442y. Oral and Written Russian: Advanced Course.

Selected twentieth-century Russian texts in philosophy, criticism, and literature provide a context for discussion. Lectures and reports on the modern period. Frequent compositions. Conducted entirely in Russian. Recommended for students who wish to improve their active command of Russian. The second term may be taken without the first. Prerequisite: three years of Russian or permission of the instructor. Mr. Sapronow. M W 3:10. Third hour to be arranged.

V3443x, V3444y. Advanced Russian: Syntax and Style.

Autumn Term: Systematic study of problems in Russian syntax; written exercises, translations into Russian, and compositions. Spring Term: Discussion of different styles and levels of language, including word usage and idiomatic expressions; written exercises, analysis of texts, and compositions. Conducted entirely in Russian. The second term may be taken without the first. Prerequisite: three years of Russian or permission of the instructor. Mrs. Trifunovich. M W F 2:10.

- Literature Courses** For nonmajors, courses marked thus § will count toward the general college requirement.
- V1223x. Modern Slavic Drama in Translation.**
An introduction to Russian, Polish, and Czech dramatic literature from World War I to the present. Selected readings from Andreev, Gorky, Bulgakov, Mayakovsky, Olesha, Pogodin, Shvarts, Arbuzov, Solzhenitsyn, Witkiewicz, Mrozek, Rozewicz, Capek, Havel and others. Lectures and class discussion. Professor Segel. Tu Th 11-12:15.
- V1225x, V1226y. Survey of Russian Literature.**
Literature from Pushkin through the modern period, with emphasis on the prose masterpieces of the nineteenth century. The second term may be taken without the first. A knowledge of Russian is not required. V1225x: Professor Malmstad. V1226y: Professor Ledkovsky. M W F 11.
- V1227y. The Works of Tolstoy.**
A close analysis of the major novels, shorter fiction, and selected essays, focusing on aesthetic, moral, social, and religious concerns. Some attention will be paid to Tolstoy's theories of non-resistance, anarchism, and the new consciousness in the context of their times and ours. A knowledge of Russian is not required. Professor Gustafson. M W F 12.
- [V1228y. The Novels of Dostoevsky. Not given in 1973-74.]**
- [V1229x. Russian Drama and Theater. Not given in 1973-74.]**
- §V3333x, V3334y. Introduction to Russian Literature.**
Emphasis on reading and literary analysis. Close study of representative works of Russian literature from Pushkin to the modern period. Conducted mainly in Russian. Examinations in English. Prerequisite: a grade of B- or better in Course V1202y (formerly Course 4) or permission of the instructor. Professor Ledkovsky. M W F 10. Oral practice (optional). Mr. and Mrs. Sapronow. Two hours to be arranged.
- [V3454y. Russian Thought in the Nineteenth and Twentieth Centuries. Professor Gustafson. Not given in 1973-74.]**
- [§V3461y. Pushkin. Professor Ledkovsky. Not given in 1973-74.]**
- [§V3462x. Gogol. Professor Malmstad. Not given in 1973-74.]**
- [§V3463x. Tolstoy. Professor Gustafson. Not given in 1973-74.]**
- §V3464y. Dostoevsky.**
A close study, in the original, of one major novel, with emphasis on linguistic and literary analysis. Conducted mainly in Russian. Prerequisite: three years of Russian or permission of the instructor. Professor Ledkovsky. M W F 1:10.
- §V3465x. Russian Poetry in the Nineteenth and Twentieth Centuries.**
Intensive reading of selected texts from representative lyric poets, including Tiutchev, Fet, Blok, and others. Attention to metrics,

formal analysis of style and structure, and the relationships to literary and philosophical movements. Prerequisite: three years of Russian or permission of the instructor. Professor Malmstad. M W 12:45-2:00.

§V3467x. Twentieth-Century Prose Writers.

A close study, in the original, of three major authors chosen from among Bunin, Babel, Olesha, Pasternak, and an author writing today. Prerequisite: three years of Russian or permission of the instructor. Professor Maguire. Tu Th 11-12:15.

V3595x, V3596y. Seminar.

Supervised individual research, culminating in a critical paper. The second term may be taken without the first. Prerequisite: senior standing and permission of the instructor. Professors Harkins, Maguire and staff. First meeting (x and y.) Th 3:10, both at 226B Milbank.



Professors	Bernard Barber (Chairman; 410E Milbank Hall), Mirra Komarovsky, ¹ Gladys Meyer
Associate Professor	Jonathan R. Cole
Assistant Professors	Ethna Lehman, Julia Makarushka
	¹ Emeritus.

Sociology introduces students to the scientific study of society. The basic problems common to all human societies and the varied institutional solutions to these problems make up one large area of sociological interest; hence the sociological study of the family, social class, economic and political institutions, religion, science, ideology, etc. The study of rural and urban communities, human relations in groups, social structure and personality are other areas of sociological interest. So also is the understanding of social change. Sociology is concerned not only with the normal functioning of social institutions but also with social problems such as racial and minority problems, industrial conflict, crime, and other areas of social disorganization. In studying these subjects, materials about American society are given primary emphasis. However, comparative materials from other societies, preliterate and more highly developed, are extensively used. Finally, sociology seeks to acquaint students with its methods of investigation, from which students can learn important facts about scientific method in general. A student majoring in sociology will be required to take: Course 1, 2 (preferably in the freshman year); 41 and 43 (both no later than fall of the junior year); 87-88 (in the senior year); and other courses selected in consultation with the major adviser.

There is no major examination. To graduate, a student must complete, to the satisfaction of her instructor in Soc. 87-88 and one other member of the department, a long paper involving some form of sociological research and analysis.

- §1, 2.

Introduction to Sociology.

[8]
- An introduction to sociological analysis with comparative materials from contemporary American and other societies. Autumn Term: Alternative models of sociological analysis. Major structures of society: kinship, socialization, stratification, formal and informal organization. Spring Term: Major structures of society continued: polity, economy, religion. Selected problems of social deviance and social control. Race and ethnic relations. Problems of social change. These courses must be taken in sequence, but not necessarily in the same year. Professor Lehman. Tu Th 11-11:50, and one additional hour F 10 or 11.

- §21. Poverty and the State.** [2]
Conceptualizations of poverty and their effect on public policy. An analysis of tax supported welfare and anti-poverty programs. Comparative study of the philosophy, structure, and coverage in the U.S., England, and France. Open to juniors and seniors. Term paper required. Field work available for those taking both 21 and 22. Prerequisite: Course 1, 2. Professor Meyer. M W F 10.
- 22. Introduction to Social Work.** [0]
The growth of the profession. Intellectual influences which have shaped its development. The traditional fields of practice. The structure and function of voluntary agencies. Open to juniors and seniors. Prerequisite: two courses in social science other than history. Term paper required. Field work available for those taking both 21 and 22. Professor Meyer. M W F 10.
- §32. The Family.** [9]
Kinship structures and processes in a cross-cultural perspective. Topics included: comparative kinship structures in selected contemporary and historical societies; kinship and socialization; the relations between kinship structure and other institutions (economy, polity, religion, stratification); kinship and social change; selected problems of kinship structures (divorce, desertion, illegitimacy). Prerequisite: Course 1, 2. Professor Lehman. Tu Th 2:10-3:25.
- §33. The Community.** [6]
Analysis of variant forms of community structure. Evaluation of classical and current community research. Problems of community power and policy. Professor Makarushka. M W F 3:10.
- §34. American Minorities.** [5]
The composition and distribution of minority groups in the U.S. The structure of dominance; minority adaptations to dominance; the impact of minorities upon the Establishment; the politics of confrontation. Term paper required. Prerequisite: Course 1, 2. Professor Meyer. M W F 2:10.
- §36x. Social Deviance.** [3]
Various theoretical perspectives on the nature of deviance and social control. The analysis of selected contemporary problems, seen within the context of the wider society. Prerequisite: Course 1, 2. Professor Makarushka. M W F 11.
- §38. Sociology of Medicine.** [4]
An analysis of illness and its management in contemporary societies. Topics include: Social definitions of health and illness, with emphasis on mental illness; the structure of the "sick" role; social factors in the etiology and distribution of illness; the social organization of the medical professions and of the hospital; and problems and prospects of health delivery systems. Professor Lehman. M W F 1:10.
- §39. Sociology of Education.** [9]
The social organization of education in the United States, with emphasis upon primary and secondary schools. Topics include: The school as a complex organization; the classroom as a learning environment; social factors in academic aspirations and achievement; selected innovations in educational practices; and problems in the relations between the school and the community. Professor Lehman. Tu Th 2:10-3:25.

§40. Equality and Inequality in Western Societies. [7]

A systematic theoretical and empirical analysis of problems of inequality, justice, and discrimination in Western societies. The influence of ascribed statuses on the life-chances of individuals; the fairness of social institutions in rewarding talent. Discussion of the relevant historical, sociological, and philosophical literature. Central themes in stratification theory from 19th century biologicistic views through Marxian formulations to contemporary functional analysis will be treated. Prerequisite: Course 1, 2. Professor Cole. Tu Th 10:35-11:50.

41. Sociological Theory. [5]

Systematic, historical and sociological analysis of sociological theory with reference to the work of such major figures as Comte, Marx, Spencer, Sumner, Cooley, Durkheim, Weber, Simmel, Mannheim, Sorokin, Parsons, Merton and others. Prerequisite: Course 1, 2. Professor Barber. M W 2:10, and individual conferences.

[42. Colloquium in Sociological Theory.

Professor Barber. Not given in 1973-74.]

43. The Logic of Social Inquiry. [7]

Theories and their functions in inquiry; sociological concepts, their definition and measurement; criteria for evaluation claims to knowledge of social phenomena. The problem with common sense explanations. Concepts of causality in the social and physical sciences. The nature of evidence and inference. The conduct of inquiry: conceptualization and the formulation of hypotheses; observational procedures and problems of objectivity; the design of research and problems of causal inference; analysis of quantitative and qualitative data. Professor Cole. Tu Th 10:35-11:50.

[44. Colloquium in Research Design and Analysis.

Not given in 1973-74.]

§46x. Social Structure and Personality. [4]

Critical examination of the theory and research studies dealing with relations between social structure and personality. Prerequisite: Course 1, 2. Professor Makarushka. M W F 1:10.

[§48. Black Americans in the Twentieth Century.

Not given in 1973-74.]

Interdepartmental Female and Male: An Interdisciplinary Approach. [7]

Course 1y. Professors Komarovsky, Ehrenfeld, and representatives of the Departments of Anthropology and Psychology. May not be counted toward major. See page 66.

§50x. Female and Male — A Sociological Perspective. [7]

Economic, demographic and cultural changes modifying the traditional conceptions of masculinity and femininity. Stresses in female-male relationships at various stages of the life cycle and in the family, occupational world and other institutional settings. Class and race differences in social roles of the sexes. Social policies leading to the alleviation of current problems. Not open to students who have taken Female and Male: An Interdisciplinary Approach. Registration limited to 50 students. Professor Komarovsky. Tu Th 10:35-11:25.

52. Crime and Punishment.**[3]**

Critical review of the major perspectives in criminology, with emphasis on the relationship between theory and control structures in contemporary American society; consideration of the causes and definition of crime, the meaning of criminal statistics, the relationship between the police and the community, the operation of the court and prison systems. Prerequisite: Course 36 or permission of the instructor. Professor Makarushka. M W F 11.

87-88. Individual Projects for Seniors.**[0]**

Groups of 5-10 seniors will be assigned to instructors who will supervise the writing of long papers involving some form of sociological research and analysis. Professors Meyer, Cole, and Makarushka. Apply to Professor Cole for assignment and further instructions.



<i>Professor</i>	Margarita Ucelay (Chairman; 208 Milbank Hall)
<i>Associate Professor</i>	Mirella de Servodidio ¹
<i>Assistant Professors</i>	María de Orti, Marcia Welles
<i>Associate</i>	Luz Castaños
<i>Instructors</i>	Vilma Bornemann

Other officers of the University offering courses listed below:

<i>Professor</i>	Karl-Ludwig Selig, Philip Silver
<i>Assistant Professors</i>	Robert Brody, Linda Klein, B. Russell Thompson
<i>Instructor</i>	Luciana de Ames

¹ Absent on leave, Autumn Term.

A major in Spanish is designed to enable the student to acquire ease and fluency in the written and spoken language and to develop an understanding of the cultural and literary traditions of Spain and the Hispanic Republics.

A student majoring in Spanish will be required to take Courses 13, 14; 17, 18; 20; 23; 25, 26; 31, 32.

Other fields: The following courses are recommended:

Anthropology V3029y; Classical Literature 32y; Art History 75, 76, 78; French 21, 22; German 55, 56; History W4779x-W4780y; Philosophy 1; Religion V1101x. A major in Spanish must broaden her study of Spanish culture by relating it to other cultures which have influenced it or been influenced by it.

The major examination consists of a three-hour written examination on Spanish literature; a three-hour written examination on Hispanic civilization and Spanish-American literature; and a half-hour oral examination on literature and culture. All examinations are conducted in Spanish.

Foreign Language Requirement for the Degree: Freshmen who have had prior training in Spanish and who wish to satisfy the foreign language requirement in Spanish will be placed in the appropriate language courses on the basis of their CEEB scores, or, if such are not available, on the basis of proficiency tests taken before registration. Students having a sufficiently high score will automatically fulfill the requirement. All others may do so by completing course 4 with the exception of students of Spanish American background who must fulfill the requirement with Spanish 6x instead of Spanish 4. Transfer students should consult the department.

Language Courses

V1101x-V1102y. Elementary Full-Year Course.

Grammar, reading, conversation. May not be taken parallel to elementary Italian. Laboratory work is required. Members of the

Department. Section 1a M Tu W Th F 9. Section 1b M Tu W Th F 9. Section 2 M Tu W Th F 10. Section 3a M Tu W Th F 11. Section 3b M Tu W Th F 11. Section 4 M Tu W Th F 12.

2x. Intensive Review of Elementary Spanish. [5]

A course for incoming students whose score on the placement test puts them between the beginning and intermediate level. Also intended for students of Spanish-American background who have some speaking knowledge of Spanish but insufficient formal training or grammatical foundation. Laboratory work is required. Instructor to be announced. M Tu W F 2:10.

3, 4. Intermediate Course. [16]

A rapid review of grammar and syntax; oral practice. Discussion and analysis of important works in Spanish and Spanish-American literatures. Work in the language laboratory is part of the course. Members of the Department. Section I M W F 10. Section II M W F 11. Section III M W F 2:10.

3y. Intermediate Course, Part I. [2]

Equivalent to Course 3, but given in the Spring Term. Mrs. Bornemann. M W F 10.

4x. Intermediate Course, Part II. [3]

Equivalent to Course 4, but given in the Autumn Term. Professor Welles. M W F 11.

5. Spanish through Literary Analysis. [0]

Readings in twentieth-century works as a basis for improving the comprehension of written and spoken Spanish. Textual analysis. Relationship of style and content. Weekly compositions. Prerequisite: Course 4 or 4x. Mrs. Bornemann. M W F 1:10.

6x. Problems of Spanish Grammar. [2]

A study of morphology, structure, and syntax as a point of departure for questions related to New York City Spanish: i.e., why linguistic norms operate, what variants develop, to what extent New York City Spanish is peculiar and why. Recommended to students in Education, Linguistics, Urban Studies. Must be used to fulfill the foreign language requirement by students of Spanish-American background. Instructor to be announced. M W F 10.

[7. A Study of Spoken Spanish. Not given in 1973-74.]

9, 10. Advanced Oral Spanish. [0]

A study of spoken Spanish, of differences of pronunciation in Spain and America. Conversation, oral drills, and field work. Not intended for students of Spanish-American background. Prerequisite: Permission of the instructor, Miss Castaños. Hours to be arranged.

Literature Courses

For nonmajors courses marked thus § will count toward the general college requirement. All Barnard courses are conducted entirely in Spanish except Course 12.

§11. Significant Themes of Contemporary Latin-American and Spanish Literature.

Analysis and discussion of selected works of contemporary interest. Prerequisite: Satisfaction of the foreign language requirement in Spanish. Spanish 11 may be elected more than once for course credit providing sections vary.

I. Literature of Social Protest. [4]

A study of the works of Azuela, Asturias, Fuentes, Vargas Llosa, Neruda, Vallejo, Cardenal and others. Instructor to be announced. M W F 1:10.

§11y. The equivalent of Spanish 11, but given in the spring.**I. Surrealism in Spain. [3]**

Lorca, Alberti, Aleixandre. The interrelationship between the literary works and the artistic expression of Dali and Buñuel. Professor Welles. M W F 11.

II. Magic Realism in the Contemporary Latin-American Short Story. [4]

A study of the works of Borges, Cortázar, García Márquez, Carpentier and others. Professor Orti. M W F 1:10.

12. Contemporary Latin-American Narrative in Translation. [0]

Reading and discussions of major works by Asturias, Borges, Fuentes, Cortázar, García Márquez, Rulfo and Vargas Llosa. Special emphasis on the social and structural problems involved. No knowledge of Spanish is required. Admission by written permission of the instructor. Professor Servodidio. M W 11-12:15.

13. The Culture of Spain. [7]

The history and culture of Spain. A study of the origins and evolution of Spanish character, tradition, and thought. The interrelationship of its history and arts and the scope of its contribution to Western culture. Lectures and written reports. The use of audio-visual materials will be stressed. Prerequisite: Course 4 or 5. Professor Ucelay. Tu Th 10:35-11:50.

14. Spanish-American Culture. [3]

The history and culture of Spanish America. A study of the origins and evolution of the Spanish-American character, tradition, and thought. The interrelationship of its history and arts. Lectures and written reports. The use of audio-visual materials will be stressed. Prerequisite: Course 4 or 5. Instructor to be announced. M W F 11.

§C3333x-C3334y. Masterpieces of Spanish Literature (in Spanish).

A systematic survey of the major works of the great writers of Spain and Spanish America. Readings, discussions, and brief reports. Professor Thompson. M W F 9.

§17. Spanish Literature in the Middle Ages and the Early Renaissance. [9]

Lectures and discussions in Spanish on Spanish Literature from its origins to the beginning of the sixteenth century. Prerequisite: Satisfaction of the foreign language requirement in Spanish. Professor Ucelay. Tu Th 2:10-3:25.

§18. Literature of the Golden Age. [4]

A study of the poetry, theater and narrative of the Golden Age. Lectures and discussion of principal authors including Garcilaso, the mystic poets, Cervantes, Lope de Vega and Calderón. Prerequisite: Satisfaction of the foreign language requirement in Spanish. Professor Welles. M W F 1:10.

- §20. Don Quijote.** [7]
Close analysis and discussion of Cervantes' masterpiece. A study of the principal critical works as outside reading. Prerequisite: Course 17 or 18 or written permission of the instructor. Professor Ucelay. Tu Th 10:35-11:50.
- [§22. The Spanish Drama.** Professor Ucelay. Not given in 1973-74.]
- §23y. Nineteenth Century Literature in Spain.** [9]
Romantic drama and poetry; the realistic novel with special emphasis on Galdós. Prerequisite: Course 17 or 18 or written permission of the instructor. Professor Ucelay. Tu Th 2:10-3:25.
- §25. Contemporary Spanish Literature, Part I.** [5]
Characteristics, technique, and style of the writers of the generation of '98 from Unamuno to Ortega y Gasset. (Baroja, Valle-Inclán, Azorín, Benavente, A. Machado, Juan Ramón Jiménez will be specifically studied.) One term paper. Prerequisite: Course 17 or 18 or written permission of the instructor. Professor Orti. M W F 2:10.
- §26. Contemporary Spanish Literature, Part II.** [5]
The ideas, trends, and new literary concepts from García Lorca and the generation of '27 to the present day writers. One term paper. Prerequisite: Course 17 or 18 or 25 or written permission of the instructor. Professor Orti. M W F 2:10.
- §31-32. Spanish-American Literature.**
Autumn term: A survey of literary currents in Spanish America through Modernism. Instructor to be announced. M W F 11. [3]
Spring term: Post-Modernist poetry; Jorge Luis Borges; the contemporary Latin-American novel. Professor Servodidio. M W F 10. [2]
- C3814y. Twentieth Century Spanish Poetry.**
Machado, Salinas, Lorca, Damaso Alonso, Blas de Otero. Professor Silver. M W 10.
- 33. Senior Seminar.** [0]
Intended to supplement or coordinate the work done in other courses and to introduce the student to the methods of scholarly research. Open only to seniors. Professor Ucelay. Hours to be arranged.
- C3810x. Don Quixote in Translation.**
A critical examination of Don Quixote (in translation). In addition, particular consideration of various kinds of novels (pastoral, sentimental, picaresque, and novels of chivalry) in their relationship to Don Quixote and the history and development of the genre. Professor Selig. Tu Th 11-12:15.
- V3811x-V3812y. Latin-American Seminar.**
A seminar which examines the mainsprings of civilization and cultural change in Latin America. Designed for senior majors in Latin-American areas. Professors Brody and Klein and staff. Hours to be arranged.

Professional and graduate training is offered at various schools in Columbia University, and their Bulletins are available in the office of the Secretary of Columbia University. Information and advice concerning advanced work in the University may be obtained from class and major advisers at Barnard.

The requirements for admission vary and must be checked by reference to current regulations and by inquiry to the Office of University Admissions or to the specific school. In some instances a student is eligible after two or three years of college study; in others a Bachelor's degree is essential.

Professional and graduate schools of the University include the School of Architecture; the School of the Arts; the Graduate School of Business; the School of Dental and Oral Surgery; the School of Engineering and Applied Science; the Graduate School of Arts and Sciences; the School of International Affairs; the Graduate School of Journalism; the School of Law; the School of Library Service; the Faculty of Medicine (Nursing, Occupational Therapy, Physical Therapy, Public Health); the College of Pharmaceutical Sciences; the School of Social Work; Teachers College; and Union Theological Seminary.

SCHOOLS REQUIRING THE BACHELOR'S DEGREE

Architecture

The School of Architecture offers courses of study leading to the degree of Master of Architecture. Under normal conditions, the degree may be obtained in three years.

The requirement for admission to the School is an undergraduate degree in any field or the equivalent. In addition to the degree, four specific courses are required: one semester of physics; one semester of calculus; one semester of architectural history or art history; and one semester of painting, drawing or sculpture. The courses offered by the School are described in detail in the Bulletin of the School of Architecture. A copy may be obtained from the Office of Architecture Admissions, 400 Avery Hall, 280-3510.

Business

Programs leading to the MBA degree and the Ph.D. degree in business are available on a full-time, day study basis. In addition to the areas available at the Business School, special concentration areas can be arranged in conjunction with other graduate faculties. Combined degree programs at the master's level are offered with the Schools of Journalism, Law, Architecture, Medicine (Public Health), and International Affairs, and at the doctoral level with Teachers College.

Through the general approach of its core courses and study in one of the fields of business and management, students prepare for diversified managerial positions.

The Columbia Business School operates on a trimester program of instruction. A student may begin studies during the Summer, Autumn, or Spring Term and may complete the degree requirements in four consecutive terms, or may elect not to attend the school for any one four-month term for purposes of employment or vacation, and return to complete the four-term requirements.

Qualified seniors may inquire into cross registration. Business School courses completed in excess of the undergraduate degree requirements may be applied toward MBA credit to a maximum of five courses.

For further information, please write to the Graduate School of Business Admissions Office in Uris Hall.

**International
Affairs and
Regional Institutes**

The School of International Affairs awards an M.I.A. degree on the completion of a two-year course. The curriculum is intended to prepare students for careers in a variety of international fields. The program combines emphasis on international politics, international economics, regional specialization, and a functional specialization (such as international business, international law, foreign policy analysis and international communication).

The Regional Institutes give certificates in conjunction with the degree program in the School of International Affairs or the Graduate School of Arts and Sciences. The Regional Institutes at Columbia are as follows: East Asian Institute, Near and Middle East Institute, the Institute on East Central Europe, Russian Institute, Institute on Western Europe, Institute on African Studies, the Institute of Latin American Studies, and the Southern Asia Institute.

Further information may be obtained from the Office of University Admissions.

Journalism

The Graduate School of Journalism offers a one-year course leading to the degree of Master of Science. A Bachelor's degree is required for admission to this school. Undergraduate work should include, wherever possible, courses in English, government of the United States, history since 1914, economics, sociology, and psychology. The school requires a strong liberal arts background.

Law The School of Law offers a three-year course of study leading to the degree of Doctor of Jurisprudence. Although there is no required prelaw curriculum, students are advised to take courses in English, American political history, English political and constitutional history, economics, and in logic or philosophy or both.

Admission is on a competitive basis. All applicants are required to take the Law School Admission Test (LSAT) and register with the Law School Data Assembly Service (LSDAS). The test will be given in many locations throughout the United States several times during the academic year. For further information write to the Educational Testing Service, Princeton, New Jersey 08540.

Medicine The College of Physicians and Surgeons offers a four-year course of study leading to the degree of Doctor of Medicine. The preparatory work at Barnard must include the requirements as follows: at least one academic year of English, physics, biological sciences, general chemistry, organic chemistry and a laboratory course in organic chemistry.

Before admission to the medical school, the entire premedical record of each applicant is carefully examined in order that those who are adjudged the most promising candidates for the profession may be selected. While the minimum requirement for admission is three full academic years of college work, the complete college course of four years is considered the most desirable preparation.

Public Health The School of Public Health offers graduate programs leading to the Master of Public Health degree and Master of Science degrees in Biostatistics, Epidemiology, and Parasitology. Students in the Master of Public Health program may concentrate in one of the following areas: general public health; biostatistics; environmental management and occupational health; epidemiology; health administration, including health planning, health facilities, and health program administration; mental health; and tropical medicine. The Master of Public Health requires a minimum of three semesters of course work and at least one semester of supervised practical experience. The Master of Science degree may require two academic years of study. A Bachelor's Degree, some evidence of satisfactory preparation in quantitative subject areas, and an acceptable academic average are requirements for admission.

For further information write to the Office of Admissions, School of Public Health, 600 West 168 Street.

School of the Arts

The School of the Arts offers to graduates with a Bachelor's degree from Columbia University, or from another institution of acceptable standing, a two-year course of study leading to the degree of Master of Fine Arts in painting and sculpture, film, and writing, as well as the degree of Doctorate in Musical Arts in musical composition.

A bulletin describing these graduate courses, and also undergraduate courses, is available at the Dean's Office, School of the Arts, 617 Dodge.

Social Work

The Columbia University School of Social Work offers a two-year course of study leading to the degree of Master of Science. An advanced curriculum leading to the degree of Doctor of Social Welfare is offered to graduates of schools of social work.

The School is an accredited member of the Council on Social Work Education. The curriculum includes a sequence of background and methods courses, supervised field work in social work agencies, and research to prepare students for professional practice in social work. A Bachelor's degree is required for admission. The undergraduate program of study must include sixty semester hours in liberal arts with a minimum of twenty hours in the biological and social sciences, with emphasis in the direction of the social sciences. A limited number of applicants may be considered for the M.S. program upon completion of three years of full-time undergraduate study. Applications should be filed in January of the junior year.

Admission is on a selective basis. The announcement, giving information about the curriculum and dates for filing applications, may be obtained from the Director of Admissions, 622 West 113th Street, New York, N.Y. 10025.

Union Theological Seminary

Union Theological Seminary offers courses of study leading to the degree of Master of Divinity, Master of Arts in Education and Theological Studies, Master of Arts in Biblical Literature and Comparative Study of Religions. The Seminary also participates in joint programs leading to the degrees of Master of Arts and Doctor of Philosophy in the field of religion at Columbia University.

A Bachelor's degree is required for admission. Those applicants are selected who in the light of expressed purpose, personality,

and record of scholarship give especial promise of usefulness in some form of Christian ministry.

Further information may be obtained from the Office of the Registrar, 3401 Broadway, New York, N.Y. 10027.

SCHOOLS NOT REQUIRING THE BACHELOR'S DEGREE

Admission may be gained to the following professional schools without a Bachelor's degree.

Dental Hygiene

The Division of Dental Hygiene, School of Dental and Oral Surgery, offers a junior-senior course of study leading to a Bachelor of Science in Dental Hygiene. Applicants must have completed two years or sixty semester points of work in approved colleges or universities, including six points of English composition, four points of chemistry, four points in biology, three points in psychology, and three points in sociology. Graduates are qualified for licensing examinations in all states.

Further information may be obtained from the Dental Hygiene Admissions Office, Room 7-204, School of Dental and Oral Surgery.

Dental and Oral Surgery

The School of Dental and Oral Surgery offers a four year course of study leading to the degree of Doctor of Dental Surgery. Required preparation at Barnard College is a minimum of three years including one academic year or its equivalent of the following courses: English composition and literature, inorganic chemistry, organic chemistry, physics and biology.

The admissions Committee of the School of Dental and Oral Surgery will consider carefully the entire predental record and select the most promising candidates.

Engineering and Applied Science

The School of Engineering and Applied Science offers undergraduate programs in the professional branches of engineering and in the applied sciences.

The first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a minimum of courses is taken in the engineering school. After successful completion of the first three years' work, the student applies for admission to the School of Engineering and Applied Science, where the remaining two years of more specialized engineering study are taken.

Although the above plan is educationally desirable, it is possible in some cases for the exceptional student to complete the prescribed subjects with two years in Barnard College and two years in the School of Engineering and Applied Science. This program leads only to the degree of Bachelor of Science.

Students interested in engineering or applied science should offer at entrance to Barnard mathematics through trigonometry, physics, and, if possible, chemistry, in addition to the general admission requirements. For details the Office of Admissions of the School of Engineering and Applied Science should be consulted.

Further information about the engineering program and the advanced degrees may be obtained from the Bulletin of the School.

Nursing In September 1973, the Department of Nursing will admit the first freshman class. Liberal arts courses will be offered by Barnard College and the School of General Studies. Students will begin their nursing major in their first year. Clinical facilities will be provided by St. Luke's Hospital Center and Roosevelt Hospital together with Columbia-Presbyterian Medical Center. Junior transfer students and college graduates seeking the degree of Bachelor of Science in Nursing will continue to be admitted.

Further information may be obtained by writing to the Office of Admissions, Department of Nursing, Columbia University, 179 Fort Washington Avenue.

Occupational Therapy The School of Occupational Therapy offers courses of study leading to the degree of Bachelor of Science after the completion of a two year program in the liberal arts.

The Faculty of Medicine offers a graduate program leading to a Master of Science degree in occupational therapy which requires for admission an acceptable baccalaureate degree including stated prerequisites in English, biology, psychology, and sociology. The program of study includes sixty semester credits and eight months of clinical experience.

For additional information write to the Director, Occupational Therapy Courses, College of Physicians and Surgeons, 630 West 168th Street.

Pharmacy The College of Pharmaceutical Sciences is a three year professional school. It grants the Bachelor of Science degree in the pharmaceutical sciences. Students may enter after completing two years of college with courses including basic sciences.

The graduate program includes Masters and Ph.D. degrees in research areas, as well as the Doctor of Pharmacy degree.

Further information may be obtained from the Director of Admissions, College of Pharmaceutical Sciences, 115 West 68th Street.

Physical Therapy The Faculty of Medicine offers a program of professional study in physical therapy which leads to the Bachelor of Science degree. The candidate for admission must present two years of acceptable college work, including courses in biological sciences, physics, English, and psychology. Requirements for admission to the licensure examination for physical therapists in the State of New York include two courses each in biology, chemistry, and physics. Students who plan to practice in New York State should accordingly fulfill the remainder of these requirements.

The course of professional study covers 21 calendar months, including two academic years of didactic instruction and clinical practice, and a two-month clerkship following the junior year of study.

A graduate program of one calendar year is offered for students already possessing a Bachelor of Arts or Bachelor of Science degree, depending on previous preparation in biological science, physics, English, and social science. The Faculty of Medicine awards a certificate upon satisfactory completion of this course.

Barnard does not charge its students the full cost of their instruction, since its Trustees believe that admission to college should be based on intellectual ability and promise rather than financial resources. Student payments meet only two-thirds of the total educational expense; the balance must be obtained each year from investment income and from gifts of the Associate Alumnae and other friends of the College. By continuous efforts to increase annual gifts and endowment, and by economy of operation, the College keeps charges as low as possible without sacrificing the quality of its instruction.

Schedule of Fees and Charges

The following fees are required from all students for each autumn or spring term:

Tuition	
Full program	\$1,480.00
Partial program (less than 3 courses, per course)	370.00
Registration	10.00
Health Service	45.00
Undergraduate Association (Will be paid to Undergraduate Associations on behalf of each student)	15.00

The following fees are required from all students occupying College housing facilities for each autumn or spring term:

Reid, Brooks and Hewitt Halls	
Room — Single	367.50
Double	342.50
Board	275.00
600, 616 and 620 West 116th Street	
Room — Single	400.00
Double	375.00
Plimpton Hall	
Room — Single	400.00

The following fees will be charged where applicable:

Application for admission	15.00
Registration in absentia	15.00
Physical education — part-time students	5.00
Late registration for academic work and/or physical education	15.00
Orientation fee (All students entering Barnard College for the first time)	28.00
Senior fee (All graduating seniors)	25.00

Fees

Deferred and special examinations, payable in each case before the examination is held:	
For each deferred examination	10.00
For each special examination	10.00
(A special or deferred examination is one taken at any time other than the conclusion of a course)	
Late payment fee where applicable	15.00
Late filing of:	
Tentative program cards	10.00
Final Program Cards	15.00
Application for deferred examination	5.00
Application for language placement test	5.00

Under certain circumstances, course or departmental charges may be made. Please see announcements of departmental offerings and special requirements for courses in the University.

Deposits All students: In order to obtain a place on the college roll for the ensuing academic year, students who are currently enrolled must pay a deposit of \$100 toward tuition and fee charges on or before *May 1*. Applicants for admission will be billed for the deposit at the time they signify their acceptance of admission to the College. One-half of this deposit (\$50) will be applied to the charges of the Autumn Term and the remainder to the charges of the Spring Term. The deposit toward the term's charges is forfeited unless the Bursar is notified of a change in plans no later than *July 2* for the Autumn Term or *November 1* for the Spring Term.

Resident students and nonresidents who pay housing fees through the College: a room deposit of \$100 is payable by *May 1* to secure the assignment of a room for the following academic year. Three-quarters of this deposit (\$75) will be applied to the charges of the Autumn Term and the remainder to the charges of the Spring Term. The deposit toward the term's charges is forfeited unless the Bursar is notified of a change in plans no later than *July 2* for the Autumn Term or *November 1* for the Spring Term.

Payment of Charges and Fees All charges and fees are payable semiannually, in advance. No reduction is made for late registration. Registration is not complete until all charges and fees are paid. Failure to complete registration (including the payment of all charges and fees) on time imposes automatically the statutory charge of \$15 for late registration.

Payment of charges and fees (accompanied by copy of the bill) must be made by *August 10* for the Autumn Term and by *December 17* for the Spring Term. If payments are mailed, envelopes must be postmarked not later than *August 10* or *December 17* respectively. Students admitted for the Autumn Term after *August 1* must pay their bills before the first day of registration. A late payment fee of \$15 will be charged on all payments made or postmarked after midnight on the above dates.

Rooms will not be held for students whose total bills are not paid by *August 10*.

All charges and fees are subject to change at any time at the discretion of the Trustees.

The privileges of the College, including examinations, are not available to any student who is delinquent in the payment of charges or fees. When bills are not paid by their due date or satisfactory arrangements for their payment are not made with the Bursar, the student will be required to withdraw from the College. Financial obligations include not only tuition, fees, and residence charges (if any), but fines due the libraries and other charges which may be incurred.

Checks or money orders in payment of all charges and fees must be in U.S. funds (at a U.S. bank) payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due.

(The application fee of \$15, payable when application for admission is filed, is not credited on the bill and is never refunded.)

NOTE: Holders of a New York State Regents Scholarship and/or Scholar Incentive Award may deduct the amount received in 1972-73 or the amount estimated by the Financial Aid Office provided they submit a copy of the certified or registered mail receipt indicating they have filed an application for 1973-74.

Deferred Payment

Many parents prefer to meet academic expenses out of monthly income, rather than in large cash payments. Barnard College has no established plan for installment payments. The cost of operating such a plan and the fact that the College operates with a limited administrative staff preclude the possibility of such an arrangement. The College has arranged to participate in the Insured Tuition Payment Plan of Boston which offers two convenient payment programs for parents who desire to budget

the annual cost in monthly installments. Both programs include insurance protection which covers the balance of the cost of the entire educational program in the event of the death or disability of the insured parent. A brochure describing it will be sent to all parents of incoming students in the spring of 1973. The College will also continue to participate in the College Aid Plan. Material concerning it will be sent to all incoming students during the spring of 1973. Others can obtain information from the Bursar's Office.

The College will also accept payment made through any bank or trust company or recognized financing agency provided payments are made on or before *August 10* for the Autumn Term or *December 17* for the Spring Term.

Adjustment of Fees and Refunds

For changing program of study: If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be refunded the excess only if the alteration in her program was made by *September 19* in the Autumn Term and by *February 1* in the Spring Term. If the new program calls for higher tuition, the student must pay the difference at the time she registers the program change.

For withdrawal: If a student withdraws from College after *July 2* for the Autumn Term and *November 1* for the Spring Term, the following amount of tuition and residence fees paid will not be refunded:

Tuition and fees	\$50.00
Residence fees: Autumn Term	75.00
Spring Term	25.00

Up to and including the first Friday of the term (see the College Calendar), the remaining tuition, \$1,500, which the student has paid will be refunded in full. After the first Friday of the term, twenty percent of the remaining tuition, \$300, will be retained by the College for each additional week, or part of a week, of the semester up to the date on which the student's written notice of withdrawal from the College is received by the Office of the Dean of Studies.

Up to and including the first Friday of the term (see the College Calendar), the remaining residence fees that the student has paid will be refunded in full. After the first Friday of the term, ten percent of the remaining residence fees will be retained by the College for each week, or part of a week, up to the date on which the student's written notice of withdrawal from the College is received by the Office of the Dean of Studies.

Any refund to a resident student who moves from the residence halls while still a student in the College will be determined by the Director of Residence and Housing.

The refund will be based on the same schedule as refunds to students who withdraw from the College and will not be payable until and unless the room is rented for the remainder of the semester.

If a student has made only partial payment on her tuition or room and board, the amount of unpaid balance for each will be deducted from any withdrawal credit that is allowed. If the unpaid balance is larger than the credit allowed, the student must pay the difference.

Refunds: No refunds for board will be made for students who wish to take meals off-campus. Barnard is nondenominational and no provision can be made for special diets.

Other Expenses

The following information may be helpful in budgeting expenses not payable to the College: \$23 for a gymnasium costume; a minimum of \$150 per year for textbooks; \$275 to cover weekend meals when the dining hall in Brooks-Hewitt-Reid is closed; for students in "600," "616," "620," and Plimpton approximately \$475 for food; for commuting and nonresident students approximately \$175 for lunches at the College; approximately \$350 for clothing, laundry, recreation and miscellaneous expenses. Individual estimates of expense should also include allowances for transportation for nonresident and commuter students, or two round-trip fares from home to college for resident students.

Student Health Service

Campus medical service is available to all Barnard students and is covered by the Health Service fee included in the comprehensive charge payable each term. This service is not available during college vacations.

Students are entitled to the following services:

- 1) an unlimited number of visits to the staff physicians
- 2) an unlimited number of visits to the gynecologists and dermatologist
- 3) use of the Counseling Service—a limited number of visits
- 4) all indicated diagnostic laboratory and x-ray studies
- 5) a single consultation visit with a specialist at the Columbia Health Service
- 6) management of minor surgical conditions by the Columbia Health Service staff

The following services are available at an additional charge:

- 1) hospitalization at St. Luke's when school is in session
- 2) medications
- 3) laboratory tests and x-rays ordered by outside physicians
- 4) referrals for dental care and eye examinations

The following services are not provided:

- 1) home visits
- 2) consultations when the College is not in session
- 3) ambulance transportation
- 4) coverage for chronic medical conditions which predate matriculation

A Health Booklet detailing procedures and services of the Health Service is available at the Medical Office and should be consulted for specific questions.

Insurance for Foreign Students

Foreign students who are not residing in the United States with members of their families are required to participate in the Accident and Sickness Insurance Plan. The Accident and Sickness Insurance Plan fee of approximately \$36 a calendar year is payable to the American International Life Insurance Co. of New York. Full information concerning this policy will be mailed to the student with her college bill.

Hospital Insurance

All students are eligible for membership in the Associated Hospital-United Medical Service for twelve consecutive months beginning October 1 at a cost of approximately \$94. See the Bursar's Office for complete details.

Safekeeping of Students' Funds

Barnard College is not prepared to receive funds from students for safekeeping nor to cash personal checks or travelers checks. To cover their immediate expenses, students should provide themselves with travelers checks, which can be cashed at a local bank, or money orders, which the Columbia University Station of the U.S. Post Office will cash upon presentation of a validated ID card. A validated ID card is issued after a student registers at the beginning of each term.

It is also possible to open a checking, special checking, or savings account at one of the local banks:

- Chemical Bank
Broadway and 113th Street, New York, N.Y. 10025
- First National City Bank of New York
Broadway and 111th Street, New York, N.Y. 10025
- American Savings Bank
Broadway and 111th Street, New York, N.Y. 10025

Insofar as possible, Barnard helps qualified students who have financial need. Financial aid from the College consists primarily of grants and loans, although opportunities for part-time employment are also provided (See Office of Placement and Career Planning, pages 48-49). In addition to providing financial aid from its own funds, i.e. gifts, endowment and general income, Barnard participates in the following Federal programs: the Educational Opportunity Grant program, the National Defense Student Loan program, and the College Work-Study program. Federal funds are administered by the College in accordance with government regulations and the College's general policies relating to financial aid. To supplement the above mentioned financial aid sources students are urged to investigate state loan and scholarship programs and college tuition financing plans offered by local banks and insurance companies.

Annual Awards

Loans or combination grant-and-loan awards are made by the Committee on Financial Aid to full-time students who have financial need and have demonstrated academic competence. *The College shall be the sole judge of the financial aid to be granted, and may at any time withdraw or discontinue such aid.* The amount of the award depends on the student's financial need and is determined from the following:

1. The amount of the parents' contribution as estimated from information given on the Parents' Confidential Statement of the College Scholarship Service.
2. The amount available from other sources, such as the New York State Regents Scholarships and New York State Scholar Incentive Awards.
3. The student's pre-college savings.
4. The student's summer earnings and/or earnings from part-time work during the academic year.

The basic budget used to compute financial need includes, in addition to the college fees, allowances for other expenses as described on page 227.

Awards are for one year only. Students in good standing are eligible to apply for assistance in subsequent years.

Application Procedures

Entering Students: A Barnard College application for financial aid may be obtained from the Admissions Office. It should be completed and returned to the Office of Financial Aid on or before January 1.

Each financial aid applicant must also file a Parents' Confidential Statement (PCS) with the College Scholarship Service not later than January 1 of her senior year in high school. The PCS should be obtained from the high school counselor. The College Scholarship Service acts as a central filing and distributing agent. Photostatic copies of the completed statements will be sent to the colleges named by the applicant.

Students applying for admission under the Early Decision Plan who wish to apply for financial aid must complete and file the necessary forms by October 15.

Each applicant must complete and file both forms as instructed above in order to be considered for financial aid. Each bona fide applicant is eligible for consideration for all categories of aid administered by the College. Applicants are notified of awards at the time they receive their notice of admission to the College.

If an entering student applies to more than one college in the Seven College Conference (Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, and Wellesley), her application is reviewed by the appropriate members of the Conference in order that awards may be made on a noncompetitive basis. Amounts vary only according to the difference in fees and, whenever possible, are equivalent in value.

Students Enrolled at Barnard: Any Barnard student may apply for financial aid for the following academic year. *Students already receiving financial aid from Barnard must apply each year for a renewal award.*

Each applicant must file a Barnard College application for financial aid and a Parents' Confidential Statement. These forms are available in the Office of Financial Aid beginning on December 1. Applications must be filed on or before February 15. Applicants will be notified of their awards by July 1.

**New York State
Scholar Incentive
Awards**

A student who has been a legal resident of New York State for the preceding year may be entitled to a Scholar Incentive Award (\$50 to \$300) per term while she is registered as a full-time degree candidate. The amount of this award is based upon the net taxable balance of her income and the income of those responsible for her support, as reported on the New York State Income Tax Return for the previous year. Application for awards must be made annually and should be filed before July 1 for each academic year. Further information and application

**New York Regents
College
Scholarships**

forms may be obtained from Regents Examination and Scholarship Center, 800 North Pearl Street, Albany, N.Y. 12204.

Each year the Regents of the University of the State of New York award scholarships to full-time degree candidates who are legal residents of New York State. These awards are based on the Regents Scholarship Examination and are open to students in any approved college or university in the state. Awards range from \$125 to \$500 a term, depending upon need. High school students can get further information from their counselors. New York Regents Scholarships are not automatically renewed; they must be reapplied for annually.

Loan Funds*Barnard College
Loans*

There are various loan funds at Barnard available for assignment to students as a part of their financial aid.

The Associate Alumnae of Barnard College maintain a Student Loan Fund from which loans to seniors are made. In 1950, through a gift of \$26,000 from Mr. and Mrs. Gerard Swope and Miss Henrietta Swope, an additional fund known as the Swope Loan Fund was established. In the spring of 1960, the Barnard College Loan Fund was established by the Board of Trustees to help meet the increased need of students. In 1961, the Pauline Hirschfeld Loan Fund was established with a bequest of \$5,000 from Pauline Steinberg Hirschfeld, '08. In 1966 two new loan funds were established: the Barnard College Club of Cleveland Loan Fund with gifts of \$1,276, to be used with preference for a student from the Northeastern Ohio area; and the Ann Susan Becker Memorial Loan Fund with gifts of \$1,530 from her family. In 1968 the Adelaide Le Clercq Loan Fund was established with a gift of \$3,000 from Adelaide M. Hart, '06, to be used with preference for a student majoring in music or French. In 1971 the Gertrude C. Hitchcock Loan Fund was established with \$100,000 of the bequest of Gertrude C. Hitchcock. In 1972 the Mildred Goetz Loan Fund was established with a \$50,000 bequest of Norman S. Goetz.

These funds are administered by the Committee on Financial Aid. Loans are regularly assigned as part of a student's financial aid award. No interest is charged while the student is in college. Payments on principal may be made at any time before graduation. Principal of indebtedness is repaid in semiannual installments of \$150 each after the student ceases to be in full-time attendance at Barnard College. Interest is charged from the first day of the month after the student ceases to be in full-time attendance at Barnard College at the rate of three per cent per annum on the unpaid balance.

The Morris Morgenstern Student Loan Fund of \$5,000 was established in 1959. Interest-free loans not to exceed \$500 are granted upon application to the Office of Financial Aid to any deserving undergraduates, other than freshmen, who are in need of temporary emergency assistance. Loans are granted for short terms, no longer than a year from the date of issue.

The Tudor Foundation Student Loan Fund of \$10,000 was established in 1967. Interest-free loans not to exceed \$1,000 in any one academic year are granted upon application to the Office of Financial Aid, to mature when the student terminates her connection with the College.

*National Direct
Student Loan
Program*

Barnard participates in the National Direct Student Loan Program (Title II of the National Defense Education Act of 1958). A portion of the funds for this Program are granted to the College by the federal government after application by the College; the balance of the funds are contributed by Barnard. These loans are assigned by the College to students as a part of their financial aid.

State Loans

Legal residents of the State of New York who are degree candidates are eligible to apply for loans guaranteed by the New York Higher Education Assistance Corporation. No interest is charged as long as the student is registered as a half-time student, but interest and repayment of principal must begin when a student ceases to be so registered. Further information and application forms for these loans should be obtained from local banks.

Other states also have loan plans through the Federal Guaranteed Loan Program. Students should inquire at their local banks regarding such loan plans.

**Barnard College
Funds**

Financial assistance, in the form of grants, is available through a variety of restricted and unrestricted gifts, endowment funds, and trust funds. Such grants are awarded on the basis of financial need to students who have made formal application for financial aid. Specific funds available to Barnard students each year are listed on the following pages.

Unrestricted¹**Niels J. Allison Fund (1964).**

From the estate of Beatrice C. Allison '12. \$55,229.

Alumnae Scholarship Fund (1922).

A tenth reunion gift by the Class of 1912, subsequently supplemented by legacy from the estate of Julia Ludlow Young and by gifts of other alumnae. \$19,242.

Anna E. Barnard Scholarship Fund (1899).

In honor of Mrs. John G. Barnard by Emily H. Bourne. \$3,000.

Frances E. Belcher Scholarship Fund (1963).

By bequest of Miss Frances E. Belcher. \$42,257.

Ruth Marshall Billikopf Scholarship Fund (1950).

In honor of Ruth Marshall Billikopf '19. \$5,000.

Varian White Blumberg Scholarship Fund (1952).

From the estate of Varian White Blumberg '13. \$5,000.

Charles E. Bogert Memorial Scholarship and Anna Shippen Young Bogert Memorial Scholarship Fund (1913).

By bequest of Annie P. Burgess. \$10,000.

Eva-Lena Miller Booth Scholarship Fund (1932).

In memory of Mrs. Eva-Lena Miller Booth, by the New York City Chapter of the Daughters of the American Revolution. \$1,000.

Josephine Brand Scholarship Fund (1970).

By bequest of Josephine Brand, the income therefrom to be expended within twenty-five years for scholarships. \$45,363.

Brearely School Scholarship Fund (1889).

By pupils and former pupils of the Brearely School. \$3,000.

Martha Ornstein Brenner Scholarship Fund (1915).

In memory of Martha Ornstein Brenner '99, by her friends. \$4,000.

Arthur Brooks Fund (1897).

By Olivia E. Phelps Stokes as a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence. \$5,000.

Elizabeth Hobe Burnell Scholarship Fund (1971).

By bequest of Elizabeth Hobe Burnell '20. \$58,041.

Thomas F. Clark Students' Fund (1928).

By bequest of Mrs. Fanny Foster Clark. \$100,000.

Jennie B. Clarkson Scholarship Fund (1898).

By Mrs. W. R. Clarkson. \$3,000.

Class of 1921 Scholarship Fund (1931).

A tenth reunion gift by the Class of 1921. \$2,500.

Class of 1936 Scholarship Fund (1971).

A thirty-fifth reunion gift by the Class of 1936. \$8,907.

Class of 1954 Scholarship Fund (1955).

Gifts of the Class of 1954 through their fifth reunion in 1959. \$4,584.

¹ Figures indicate principal of funds as of January 1, 1973.

College Bowl Scholarship Fund (1968).

Established with gifts from the General Electric Company, *Seventeen* Magazine, and Gimbels Department Store, earned by the Barnard College Bowl Team's five successive victories. \$19,500.

Yvonne Moen Cumerford Scholarship Fund (1972).

By bequest of Yvonne Moen Cumerford '23. \$10,000.

Vera B. David Scholarships (1962).

Income from the trust established by bequest of Vera B. David in memory of her late husband, John David.

Ada M. Donelle Scholarship Fund (1948).

By bequest of Mrs. Ada M. Donelle. \$121,751.

L. Adele Dorsett Fund (1971).

By bequest of Herman F. Smaltz in memory of Adele Dorsett Smaltz '06. \$1,000.

Margaret Jane Fischer Scholarship Fund (1968).

With a gift from Margaret Jane Fischer '35. Awarded annually. \$10,014.

Fiske Scholarship Fund (1895).

By Mrs. Martha T. Fiske-Collord. \$5,000.

Doris P. Gallert Scholarship Fund (1970).

Established by Trustees out of funds left to the College by a bequest of Doris P. Gallert, income to be used for general scholarship purposes, until further action of the Trustees. \$6,000.

Galway Fund (1912).

By an anonymous donor. \$2,400.

Anita Hyman Glick Scholarship Fund (1968).

In memory of Anita Hyman Glick '62 by her family and friends. Awarded annually to students who are academically qualified and in need of financial aid. \$11,706.

Irma Alexander Goldfrank Fund (1919).

In memory of Irma Alexander Goldfrank '08, by her friends. \$2,106.

Graham School Scholarship Fund (1907).

By the Graham Alumnae Association. \$7,300.

Louise H. Gregory Scholarship Fund (1955).

From gifts in memory of Louise H. Gregory. \$4,547.

Harkness Scholarship Fund (1939).

With a gift from Edward S. Harkness. \$100,000.

Rita Hilborn Hopf Memorial Scholarship Fund (1966).

By bequest of Rita Hilborn Hopf '14. \$270,403.

Charles Evans Hughes Scholarship Fund (1952).

By bequest of Charles Evans Hughes. \$14,300.

Lily Murray Jones Scholarship Fund (1950).

In memory of Lily Murray Jones '05, Alumnae Trustee from 1939 to 1943, by Murray, Alfred, and Wallace Jones. \$25,146.

Marjorie Lawrence Kaufman Scholarship Fund (1965).

By the Trustees out of funds left to the College by the life income contract of Marjorie Lawrence Kaufman '19. \$24,290.

Dr. Ann G. Kuttner Scholarship Fund (1969).

By the Trustees, out of funds left to the College by the life income contract and bequest of Dr. Ann G. Kuttner. \$217,005.

Augusta Larned Scholarship Fund (1924).

By bequest of Augusta Larned. \$10,000.

Marjorie Herrmann Lawrence Scholarship Fund (1967).

In memory of Marjorie Herrmann Lawrence '19. \$16,000.

Harriett Mooney Levy Scholarship Fund (1965).

By bequest of Harriett Mooney Levy. \$69,339.

Joan Sperling Lewinson Scholarship Fund (1955).

With a gift from Joan Sperling Lewinson '13. \$33,077.

Judith Lewittes Scholarship Fund (1957).

In memory of Judith Lewitts '55, by her family and friends. \$5,839.

Anne Elizabeth Lincoln Scholarship Fund (1963).

From the estate of Anne Elizabeth Lincoln '24. \$8,441.

Amy Loveman Scholarship.

See Undergraduate Awards, page 247.

Louise Grace Luby and James Luby Scholarship Fund (1947).

From the estate of Grace Farrant Luby '93. \$5,000.

Jeanne S. Mattersdorf and Bertha Miller Memorial Scholarship Fund (1970).

Established by Stephanie Mattersdorf Miller, the income from the fund shall be awarded to Barnard students based solely on need. \$4,569.

Cecile Lehman Mayer Scholarship Fund (1962).

With a gift from Mr. and Mrs. Paul Mazur, the income to be awarded annually for financial aid to the maximum of four or fewer students. \$25,000.

Memorial Scholarship Fund (1954).

To receive contributions in memory of deceased alumnae and friends. \$44,788.

William Moir Scholarship Fund (1912).

In memory of William Moir by his wife. \$10,000.

Gulli Lindh Muller Scholarship Fund (1972).

By the Trustees out of funds left to the College by the life income contract of Dr. Gulli Lindh Muller '17. \$13,514.

Caroline Church Murray Fund (1918).

In memory of his wife, Caroline Church Murray, by George Welwood Murray. \$5,000.

Annette Florance Nathan Scholarship Fund (1947).

From the estate of Frederick Nathan. \$3,000.

Dora R. Nevins Scholarship Fund (1969).

In loving memory of Dora R. Nevins by bequest of Nannie R. Nevins. \$12,500.

Lucretia Perry Osborn Scholarship Fund (1940).

In memory of Lucretia Perry Osborn, a Trustee of Barnard College

from 1893 to 1930, by her family and friends. \$5,000.

Elizabeth Palmer Scholarship Fund (1972).

By the Trustees, out of funds left to the College by Elizabeth Palmer '15. \$20,000.

Jean T. Palmer Scholarship Fund (1969).

Established by gifts of alumnae and other friends, the income to be awarded by the Committee on Financial Aid or its equivalent, to Barnard students with financial need who are in good standing, regardless of their academic averages. \$126,870.

Lucy Powell Scholarship Fund (1971).

By the Trustees, out of funds left to the College by the life income contract of Lucy Powell '13. \$5,652.

M. Gladys Quinby Scholarship Fund (1961).

By bequest of M. Gladys Quinby '08 and gifts of friends. \$5,000.

Eva Rich Scholarship Fund (1968).

By bequest of Eva Jacobs Rich '07. \$53,243.

Peter C. Ritchie, Jr. Scholarship Fund (1937).

By bequest of Virginia J. Ritchie. \$4,436.

Edith Lowenstein Rossbach Memorial Scholarship Fund (1950).

In memory of Edith Lowenstein Rossbach '19, by her family, friends, and classmates. \$23,304.

Edna Heller Sachs Scholarship Fund (1955).

With a gift from Edna Heller Sachs '10. \$16,260.

May and Edgar Salinger Scholarship Fund (1971).

Established in memory of Isaac and Eugenie Herrmann by bequest of May H. Salinger, the income to be used as aid to needy students. \$600,000.

Eleanor Butler Sanders Scholarship Fund (1922).

By bequest of Henry M. Sanders. \$10,000.

Anna M. Sandham Scholarship Fund (1922).

By bequest of Anna M. Sandham to Columbia University. \$10,000.

Schmitt-Kanefent Scholarship Fund (1931).

By bequest of Catherine Schmitt. \$7,102.

Scholarship Fund (1901).

By general subscription through the Scholarship Committee of the Board of Trustees. Approximately \$11,980.

Katherine Flint Shadek Scholarship Fund (1961).

By Katherine Flint Shadek '44. \$18,000.

Max Sloman Scholarship Fund (1971).

Established by Trustees out of funds left to the College by a bequest of Max Sloman. \$5,450.

Emily James Smith Scholarship Fund (1899).

In honor of Miss Smith, Dean of Barnard College from 1894 to 1900, by Emily H. Bourne. \$3,000.

George W. Smith Scholarship Fund (1906).

In memory of George W. Smith, a Trustee of Barnard College, by Mrs. Martha T. Fiske-Collord. \$5,000.

Edna Phillips Stern Scholarship Fund (1952).

In memory of Edna Phillips Stern '09, by her family and friends. \$21,797.

Isabel Greenbaum Stone Scholarship Fund (1957).

In memory of Isabel Greenbaum Stone '18, by her family. Recipients of these scholarships are urged to repay the amounts they receive as soon as they are in a position to do so. \$19,565.

Fannie Manwaring Sturtevant and Daniel Dwight Sturtevant Scholarship Fund (1969).

Established with a bequest from Ethel G. Sturtevant, Assistant Professor of English, retired, the income to be awarded to Barnard students. \$20,000.

Solon E. Summerfield Foundation Scholarship Fund (1960).

Gifts from the Solon E. Summerfield Foundation. \$15,500.

Thrift Shop Scholarships (1938).

Awarded annually from the proceeds of the Barnard Scholarship Unit of Everybody's Thrift Shop, 330 East 59th Street, New York, N.Y. 10022.

Veltin School Scholarship Fund (1905).

By the alumnae of Mlle. Veltin's School. \$3,000.

Alma F. Wallach Scholarship Fund (1951).

In memory of Alma F. Wallach from the estate of Richard L. Leo. \$1,000.

Ella Weed Scholarship Fund (1895).

In memory of Ella Weed, Chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence, by pupils and alumnae of Miss Anne Brown's School. Approximately \$8,602.

Hymen and Helen Werner Scholarship Fund (1964).

In memory of Hymen and Helen Werner. Established by Helen Frankfield Werner '06 in 1953 in memory of her husband. Following her death maintained as the Hyman and Helen Werner Scholarship Fund by her daughters, Therese Werner Kohnstamm '33, Laura Werner Wallerstein '36 and Jean Werner Kane '37. \$10,268.

Restricted¹

Mary Gertrude Edson Aldrich Fund (1916).

By Mrs. James Herman Aldrich to assist, in her senior year, a student who has shown in her college life the moral qualities which go to the making of fine womanhood. \$1,000.

Bertha R. Badanes Scholarship Fund (1966).

By Bertha R. Badanes '14. For children of New York City school teachers preferably from Brooklyn. If there is no qualified candidate the award may be used for another needy student, preferably from Brooklyn. \$25,000.

Barnard-in-Brooklyn Club Scholarship (1944).

A tuition scholarship, with variable stipend. Awarded annually, with preference given to a student from Brooklyn.

The Barnard College Club of Detroit Scholarship (1958).

A tuition scholarship with variable stipend. Awarded annually, with preference given to a new student from Metropolitan Detroit.

¹ Figures indicate principal of funds as of January 1, 1973.

Barnard College Club of Houston Scholarship Fund (1969).

Established until further action of the Board of Trustees with the income to be awarded to students from the Houston area. \$11,125.

Barnard College Club of New York Scholarship Fund (1952).

For a Barnard student whose home is outside the area of the City of New York. \$44,389.

Barnard-in-Westchester Endowment Fund (1962).

By the Barnard College Club of Westchester County. For scholarships, preferably for students from Westchester County. \$18,178.

Barnard School Alumnae Scholarship Fund (1916).

By the alumnae of the Barnard School for Girls. Awarded to a student in any class, preference being given to nominees of the school. \$4,000.

Willina Barrick Memorial Scholarship Fund (1936).

In memory of Willina Barrick '00, by the College Club of Jersey City. Awarded on the nomination of the Club to a graduate of a Jersey City secondary school. \$10,635.

Irving Berlin Scholarship Fund (1950).

By Irving Berlin. Awarded annually to one or more girls of foreign-born parentage. \$23,500.

Ida Blair Memorial Fund (1937).

In memory of Ida Blair by the Women's Democratic Union. To be used for the purchase of books for a student, preferably one studying political science. \$700.

Alice Marie-Louise Brett Scholarship Fund (1930).

In memory of his daughter, Alice Marie-Louise Brett '15, by bequest of Philip E. Brett. Awarded during her senior year to a student specializing in French. \$10,000.

William Tenney Brewster and Anna Richards Brewster Fund (1961).

By bequest of William Tenney Brewster. To be awarded preferably in amounts not less than \$1,000, with priority to daughters of professional people educated in independent schools. \$166,614.

Anne Brown Endowment Scholarship Fund (1939).

In memory of Anne Brown, by the Anne Brown Alumnae Association, for young women of the City of New York. Approximately \$31,339.

Carpentier Residence Scholarship Fund (1919).

By bequest of Horace W. Carpentier. Awarded annually to students who are not residents of New York City or its vicinity. \$200,000.

Eliza Taylor Chisholm Memorial Scholarship Fund (1901).

By the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend. \$3,000.

Mrs. Henry Clarke Coe Scholarship Fund (1910).

By the National Society of New England Women, now the New York City Colony of the National Society. Awarded, on nomination of the Chairman of the Scholarship Committee of the New York

City Colony, to a student from New England or of New England parentage. After the award is made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman. \$3,600.

Class of 1919 Decennial Fund (1929).

A tenth reunion gift by the Class of 1919, for a resident student. \$5,000.

Augusta Salik Dublin Scholarship Fund (1960).

In memory of Augusta Salik Dublin '06, by her family and friends. Awarded at the discretion of the Committee on Financial Aid to a Barnard student, to enable her to continue her education in preparation for leadership in a field of social welfare, such as social work, social legislation, housing and city planning, or a related area. Available either to a student for undergraduate study or to a graduating student for graduate work, for one or more years. \$13,182.

Christine H. Edie Memorial Scholarships (1968).

Scholarships of \$500 each awarded biannually to students in their junior year who are majoring in anthropology or in English, with preference given to the former.

Educational and Cultural Trust Fund of the Electrical Industry Scholarships (1951).

By the major electrical contracting firms of New York City for sons and daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers. Variable in number.

May Parker Eggleston Scholarship Fund (1972).

By Mrs. Cary Eggleston '04. Awarded annually to a science student, preferably a student planning to attend medical school. \$5,000.

English Scholarship Fund (1920).

By an anonymous donor. Awarded to a student of good standing who is specializing in English and is in need of help; with the proviso that, if in any year there is no student specializing in English who is particularly deserving of aid, the scholarship may be used to assist a student majoring in some other subject. \$5,000.

Gladys Renshaw Esterbrook Scholarship Fund (1958).

In memory of her daughter, Gladys Renshaw Esterbrook '20, by bequest of Minnie R. Esterbrook. Preference is given to applicants majoring in English or French. \$5,000.

Fairfield County Scholarship (1962).

Awarded preferably to entering freshmen from Fairfield County for one year only.

Martha T. Fiske Scholarship Fund (1911).

In memory of her sister, Mrs. Martha T. Fiske-Collord, by Anna E. Smith. Awarded to an applicant not a resident of New York City or its suburbs. \$5,000.

Helen Jenkins Geer Scholarship Fund (1940).

In memory of her mother, Helen Jenkins Geer '15, by Helen Hartley Geer '40. Awarded annually, after conference with the donor. \$5,000.

German Scholarship Fund (1950).

Awarded at the end of her junior year to an outstanding student

majoring in German. In case the winner does not need scholarship help, the award shall be a prize of \$100 and the balance of the scholarship may be given to another able student majoring in German. If in any year no student qualifies for the award, it may be deferred and given to one or more qualified students at a later date. \$13,200.

Virginia Gildersleeve International Scholarship Fund (1937).

In honor of the international work of Dean Emeritus Gildersleeve, by Charles R. Crane. Awarded annually to a foreign student coming to Barnard to study. \$15,100.

Virginia C. Gildersleeve Scholarship Fund (1968).

In memory of Dean Emeritus Gildersleeve by the Class of 1923 on their forty-fifth reunion. Awarded to a student majoring in the humanities, with priority given to an English major. \$5,330.

Julius Held Scholarship Fund (1970).

Established by gifts of alumnae and other friends, the income from the fund shall be awarded annually to a deserving student majoring in Art History. \$35,241.

Emma Hertzog Scholarship Fund (1904).

With gifts from residents of Yonkers, New York. Awarded in conference with the faculty of the Yonkers High School, to a graduate of that school. \$3,000.

Marion Alice Hoey Fund (1944).

In memory of Marion Alice Hoey '14, by Nellie Poorman. Preference is given to applicants studying Greek and Latin. \$2,000.

Holland Dames Scholarship (1915).

In honor of Fanny I. Helmuth, by the Society of Daughters of Holland Dames. Awarded in conference with a representative of the Society to a student descended from the early Dutch settlers.

Lillia Babbitt Hyde Scholarship Fund (1953).

By the Lillia Babbitt Hyde Foundation. Awarded to premedical students. \$25,000.

Charlotte Louise Jackson Scholarship Fund (1928).

In memory of Charlotte Louise Jackson, by bequest of her sister, Fannie A. Jackson. Awarded to a graduate of a Yonkers High School selected by or under the direction of the Board of Education of Yonkers. \$5,000.

Mary E. Larkin Joline Scholarship Fund (1927).

By bequest of Mary E. Larkin Joline. Awarded to a student who is specializing in music. \$10,000.

Werner Josten Scholarship Fund (1955).

With a gift from Mrs. Werner Josten. Preference is given to a student majoring in music, but if in any year no such student is eligible, the scholarship may be awarded to a student majoring in some other field. \$25,916.

Jessie Kaufmann Scholarship Fund (1902).

In memory of his daughter, Jessie Kaufmann, by Julius Kaufmann. Awarded on the merits of entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course. \$4,000.

Kimball Scholarship Fund (1938).

By bequest of Lillian Emma Kimball. Awarded to a woman from Spain or one of the Spanish-American countries who shall pursue a year of graduate or undergraduate study at Barnard or elsewhere, under the direction of the Barnard Department of Spanish. \$32,883.

Eleanor Kinnicutt Scholarship Fund (1911).

In memory of Mrs. Francis P. Kinnicutt, a Trustee of Barnard College. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

Carolina Marcial-Dorado Scholarship Fund (1953).

In memory of Professor Carolina Marcial-Dorado, for many years head of the Barnard College Department of Spanish. Awarded to a student from Spain, or to a Spanish major continuing graduate studies in the United States or abroad. If at any time there is no applicant eligible for the grant, it may at the discretion of the department be awarded to a student who is majoring in Spanish. \$15,378.

Eugene F. and Minnie Gouger McGowan Scholarship Fund (1955).

By an anonymous donor. Preference is given to candidates from Mecklenburg County, North Carolina. If in any year no such candidate is eligible, the scholarship may be awarded to a student or students from other areas. \$10,000.

Fannie Moulton McLane Scholarship Fund (1961).

By bequest of Fannie Moulton McLane '07. Awarded for tuition to deserving students who are citizens of the United States of America, with preference given to those, if any, who satisfactorily establish that they are of Colonial or Revolutionary ancestry, or the descendants of a Civil War soldier. \$7,500.

Mrs. Donald McLean Scholarship Fund (1906).

By the New York City Chapter of the Daughters of the American Revolution. Awarded, in conference with a representative of the Chapter, to a student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course. \$3,000.

Ferry Starr Morgan Scholarship Fund (1959).

In memory of her father, by bequest of Grace B. Morgan '19. Awarded to a student who is majoring in music or philosophy. \$10,000.

Lawrence Morris Scholarship Fund (1968).

In memory of Lawrence Morris by his sister Mrs. Walter Sturges (Alice Morris '36) and other members of the family. Awarded annually with preference given to a nominee of the New York City Mission Society. \$11,590.

Mary Barstow Pope Scholarship Fund (1913).

In memory of Mary Barstow Pope, teacher in Miss Chapin's School, by her friends, her fellow teachers, and her pupils. Open to any undergraduate for the whole or part of her course, and awarded on the nomination of a self-perpetuating committee representing the founders. \$4,000.

Public Service Scholarship Fund (1934).

By the Women's Organization for National Prohibition Reform. Awarded to young women of exceptional ability, interested in following a career of public service in the field of political science, who show special promise of future usefulness in the public service. Awarded at the discretion of the Faculty of Barnard College to one or two students in their junior or senior years. In the case of a particularly promising student the Faculty may, at its discretion, extend the award to cover one, two, or three additional years of graduate study at an approved college or university in order to encourage young women of exceptional ability to complete a course of study which will fit them for service in public life. \$30,000.

Lucille Pulitzer Scholarship Fund (1899).

In memory of his daughter, Lucille Pulitzer, by Joseph Pulitzer. Three are restricted to students from the City of New York; eight are for resident students. \$176,459.

Amelia Agostini de del Rio Scholarship Fund (1955).

In honor of Amelia de del Rio, Chairman of the Department of Spanish from 1942 to 1962. Awarded to a student from Mrs. de del Rio's native island of Puerto Rico. If at any time there is no applicant from Puerto Rico eligible for the grant, it may, at the discretion of the department, be awarded to a student who is majoring in Spanish. \$21,333.

Dr. Harry Rosenstein Scholarship Fund (1967).

In memory of Dr. Harry Rosenstein by his wife, Bertha Z. Rosenstein, and daughter, Gertrude L. Rosenstein '48. Awarded to a premedical student. \$5,000.

Joan Rosof Scholarship Fund (1964).

By Mr. Murray Rosof in honor of his daughter, Joan Rosof '61. Awarded to qualified students with the wish, but not the directive, that preference be given to his descendants or, in the absence thereof, to students from the State of New York. \$5,340.

Felix St. George Scholarship (1955).

In memory of her father, Felix St. George, by bequest of Ida St. George. Awarded to an incoming freshman whose subject of interest is a science or premedical course, more particularly physics, chemistry, or biology. \$7,455.

Dorothy K. Scheidell Scholarship Fund (1965).

In memory of Dr. Dorothy K. Scheidell '28, by her family, classmates, and friends. Awarded to a premedical student. If in any year no student qualifies for the award, it may be deferred until the following year. If no student qualifies over a three-year period, the accumulated income may be awarded to any able student with financial need. \$5,495.

Lillian Schoedler Scholarship Fund (1967).

By bequest of Lillian Schoedler '11. Income and/or principal awarded to deserving students with financial need who have shown promise of qualities of leadership and/or potentialities for future civic or social usefulness. Awards preferably distributed in small amounts to many students. \$65,860.

Fred Curtis Smith Memorial Scholarship Fund (1955).

In memory of Fred Curtis Smith, at the time of his death Vice President and Mortgage Officer of the Bowery Savings Bank. \$57,000.

Hilda Staber Scholarship Fund (1967).

By bequest of Hilda Staber '05. Awarded to foreign students of character and ability. \$25,000.

Estella Raphael Steiner Scholarship Fund (1972).

With a gift from Mrs. G. Gustav Steiner '23. Awarded annually to a senior of exceptionally high scholastic standing in Biological Sciences who plans to engage in research in that field. \$5,419.

Emma A. Tillotson Scholarship Fund (1910).

By Mrs. Luther G. Tillotson. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

Clara Bittenwieser Unger Memorial Fund (1938).

In memory of his daughter, Clara Bittenwieser Unger '13, by Joseph L. Bittenwieser. Awarded annually to assist through her senior year a student whose subject of major interest is government, and who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution. \$2,500.

Helen Elizabeth Vosburgh Scholarship Fund (1934).

In memory of Helen Elizabeth Vosburgh '25, by bequest of Katherine G. Lippke. Preference is given to a self-supporting student. \$5,000.

Gertie Emily Gorman Webb Scholarship Fund (1953).

By Charles Webb. Awarded to a student nominated by the Department of History. \$4,990.

Alma Gluck Zimbalist Scholarship Fund (1940).

By bequest of Alma Gluck Zimbalist. Awarded annually to a student who wishes to major in political science. \$10,000.

The following funds were established to honor those who have shown exceptional distinction in their chosen field of study. The income from these funds is awarded each year, unless otherwise stated.

Graduate Fellowships

Associate Alumnae of Barnard College Graduate Fellowship (1963).

To be awarded annually to a graduate who shows exceptional promise in her chosen field of work. \$50,000. Applications must be filed in the Alumnae Office by February 1.

Anne Davidson Fellowship Fund (1971).

In honor of Anne Davidson by the R. W. Davidson family and friends. Awarded at the discretion of the faculty committee of the Program on Environmental Conservation and Management to a graduating senior who has demonstrated continuing interest in the study of conservation. The holder is to pursue a year's graduate study in conservation at Columbia University or any other university of approved standing. \$17,500.

George Welwood Murray Graduate Fellowship Fund (1930).

By George Welwood Murray. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work in the field of the humanities and/or the social sciences. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. Students who have graduated in February are eligible as well as those who are to graduate in June. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. \$20,000.

Grace Potter Rice Fellowship Fund (1935).

In memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 to 1934, by Winthrop Merton Rice. Awarded as an academic honor to the member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. Students who have graduated in February are eligible, as well as those who are to graduate in June. The holder is to pursue a year of graduate study in the natural sciences or mathematics at Columbia or any university or college of approved standing. \$24,000.

The Herbert Maule Richards Fund (1933).

In memory of Professor Richards, a member of the Department of Botany from 1896 to 1928 and Chairman from 1897 to 1928, by the Barnard Botanical Club, former students, and friends. Granted from time to time to further botanical research, under the direction of an approved institution, to a student or an alumna of Barnard College. \$5,000.

Alpha Zeta Club Graduate Scholarship Fund (1936).

By the Alpha Zeta Club, Inc. Awarded at the discretion of the

Faculty as an academic honor to a member of the graduating class of Barnard College who, in their opinion, shows promise of distinction in her chosen line of work. It may also be awarded to an outstanding recent Barnard graduate who is a candidate for a higher degree. \$21,038.

William Mason Scholarship (1928).

The William Mason Scholarship in music is awarded periodically on recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music. An award of \$500.

Margaret Meyer Graduate Scholarship Fund (1952).

In memory of Margaret Meyer Cohen '15, by bequest of Annie Nathan Meyer. Awarded to a student in the graduating class for instruction in secretarial work. \$3,000.

Graduate Prizes

Frank Gilbert Bryson Prize (1931).

In memory of Frank Gilbert Bryson, by bequest of Ella Fitzgerald Bryson '94. The President of the College shall fix the method of selecting a senior who, in the opinion of the class, has given conspicuous evidence of unselfishness and who has made the greatest contribution to Barnard during her college career. Income on \$3,000.

Dean Prize in German (1925).

By Edward D. Adams for the promotion of the study of German language and literature in Barnard College. Awarded to that member of the senior class who has throughout her course done the best work in German language and literature. Income on \$1,000.

The Michael T. Glynne Memorial Prize (1971).

By Linda A. Glynne '71. Awarded annually to the senior accepted by a medical school who has demonstrated outstanding achievement in the humanities and the social sciences. She must be a non-science major. \$100.

Kohn Mathematical Prize (1892).

By Mrs. S. H. Kohn. Awarded to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course. Income on \$1,000.

Undergraduate Awards

Estelle M. Allison Prize Fund (1937).

By bequest of Estelle M. Allison. Awarded to a student for excellence in literature. Income on \$1,001.

Mary E. Allison Prize Fund (1937).

In memory of her mother, Mary E. Allison, by bequest of Estelle M. Allison. Awarded to a student for general excellence in scholarship. Income on \$1,001.

The American Statistical Association Prize, New York Area Chapter (1960).

Awarded annually to the outstanding undergraduate student in statistics. A one-year student membership in the American Statistical Association and \$50.

Edna Henry Bennett Memorial Fund (1927).

In memory of Edna Bennett '15, Lecturer in Zoology, by her friends. Awarded by the Department of Biology for work at a biological laboratory offering summer courses. Income on \$1,640.

Saint Agatha-Muriel Bowden Memorial Prize Fund (1971).

Established by the Saint Agatha Alumnae Association in memory of its school principal from 1930 to 1940. Awarded for superior proficiency in the study of Chaucer and Medieval Literature. Income on \$1,600.

Eugene H. Byrne History Prize Fund (1960).

In memory of Eugene H. Byrne, Professor of History at Barnard College and Executive Officer of the Department from 1931 to 1949, by his wife, Janet M. Byrne, and friends. Awarded for superior work to an undergraduate majoring in history. Income on \$3,604.

Helen Marie Carlson French Prize Fund (1965).

In memory of Helen Marie Carlson by her family and friends. Awarded to the student who writes the best composition in fourth-term French (French 4), the course which Miss Carlson directed for many years, or a similar course at the discretion of a board of three judges chosen by the College. Income on \$3,016.

The Columbia University Press Prize.

A copy of the Columbia Encyclopedia is awarded by the Columbia University Press to the member of the sophomore class who has done the best writing for Barnard Bulletin.

Isabelle de Wyzewa Prize Fund (1972).

In memory of Isabelle de Wyzewa. By her family and friends. Awarded to the student who writes the best composition in the French course, Masterpieces of Literature from the Middle Ages to the Twentieth Century, which Professor de Wyzewa directed for many years. Income on \$1,000.

Helen R. Downes Prize (1964).

In honor of Professor Emeritus Helen R. Downes '14, Chairman of the Barnard College Department of Chemistry from 1945 to 1960, by former students and friends. Awarded at the end of her senior year to the student who, in the opinion of the Premedical Committee, shows greatest promise of distinction in medicine or the medical sciences. Income on \$1,958.

The Jenny A. Gerard Medal (1908).

The Jenny A. Gerard Gold Medal, given by the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society, is awarded annually to the student who is most proficient in Colonial history.

Katharine Reeve Girard Prize (1964).

In memory of Katharine Reeve Girard '33, by her husband, Professor Richard A. Girard, and her friends. Awarded by the Faculty Committee on Honors to a student whose interests are in the international aspects of the work in her major field. Income on \$1,000.

Herrman Botanical Prize Fund (1892).

Mrs. Esther Herrman. Awarded to the most proficient undergraduate student in biology. Income on \$1,000.

Arlene Hershey Memorial Fund (1964).

Awarded annually to a senior in the Education Program.

Frederic G. Hoffherr French Prize Fund (1961).

In memory of Frederic G. Hoffherr, Associate Professor of French from 1936 to 1955. Awarded annually to a student in Intermediate French (Course 3) for excellence in oral French. The prize is offered to encourage proficiency among students who are not themselves of French background. The winner is chosen on the basis of a contest sponsored by the French Department. Income on \$1,025.

The Elizabeth Janeway Prize for Prose Writing.

A prize of \$500 awarded annually. Open to all undergraduates for a work of prose, whether fiction or non-fiction, which gives the greatest evidence of creative imagination and sustained ability. All undergraduates who intend to enter the prize competition must notify the Chairman of the English Department of their intention to do so by November 1, at which time they will receive detailed instructions as to the requirements. The final manuscripts must be submitted to the chairman by March 15. The prize will be given at the discretion of a board of three judges chosen by the College and the donor.

Eleanor Keller Prizes (1968).

By bequest of Marguerite Mespoulet, Professor Emeritus of French at Barnard College, in memory of Eleanor Keller, Professor of Chemistry at Barnard College. One prize, not exceeding \$1,000, to be awarded annually to a member of the junior class, not necessarily a French major, who has an outstanding record in courses of French literature offered by the department. Another prize, not exceeding \$1,000, to be awarded annually to a member of the senior class, not necessarily a French major, who has an outstanding record in courses concerned with French culture. \$43,517.

Stephanie Kossoff Prize (1972).

In memory of Stephanie Kossoff, by her family. A prize of \$100 awarded annually to the student who has made the most noteworthy contribution or meaningful endeavor in early childhood education.

Amy Loveman Memorial Fund (1956).

In memory of Amy Loveman '01, by her friends and classmates. First charge on the income shall be an annual prize of \$100 for the best original poem by a Barnard undergraduate. Terms of the competition will be announced by the English Department. The balance of the income shall be allocated to scholarships and shall be known as the Amy Loveman Scholarship. \$20,100.

The Lenore Marshall Prizes for Writing (1960).

In memory of Lenore Marshall. For excellence in poetry and prose contributed to the undergraduate magazine. Adjudged by Professor Janice Thaddeus, in consultation with the Department of English and the editors-in-chief, and awarded to promising young writers in need of financial aid. Two at \$100 each.

Sidney Miner Poetry Prize Fund (1962).

In memory of Sidney Louise Miner '14, by bequest of Rosemary Alice C. Thomas. Awarded annually by the Department of English to the senior major who has shown distinction in the reading, writing, and study of poetry: the judges to be members of the Department of English. Income on \$5,000.

The William Pepperell Montague Prize Fund (1949).

By William P. Montague, Lecturer, Instructor, and Professor of Philosophy at Barnard College from 1903 to 1949. Awarded to a student of Barnard College who, in the opinion of the members of the Department of Philosophy, shows promise of distinction in the field of philosophy. Income on \$5,441.

Phoebe Morrison Memorial Prize Fund (1969).

Awarded upon recommendation of the Barnard College Political Science Department to a political science major planning to attend law school. Income on \$1,510.

The Helen Prince Memorial Prize Fund (1921).

In memory of his daughter, Helen C. Prince '22, by Julius Prince. Awarded to an undergraduate student for excellence in dramatic composition. Income on \$1,200.

Katharine E. Provost Memorial Prize Fund (1949).

In memory of Katharine E. Provost. Miss Provost was for twenty-three years Secretary and Assistant to the Controller of Barnard College and, at the time of her death, Superintendent of Buildings and Grounds. Awarded for superior work by an undergraduate major in economics. Income on \$1,000.

Caroline Gallup Reed Prize Fund (1916).

In memory of her mother, Mrs. Sylvanus Reed, by Mrs. William Barclay Parsons for the recognition of outstanding work either in the field of the origin of Christianity and early church history or in the general field of the history and theory of religion. Awarded to the student who shows the highest excellence in one of these fields of work. The award is made partly on the basis of an essay to be handed in by April 1. Details regarding the scope of the essay may be obtained from the Department of Religion. Income on \$1,000.

Marie Reimer Scholarship Fund (1953).

In honor of Professor Emeritus Marie Reimer, for many years Chairman of the Barnard College Department of Chemistry, by former students and friends. Awarded annually at the end of her junior year to an outstanding student majoring in chemistry. In case the winner does not need financial help, the award shall be a prize, the amount to be recommended by the Chemistry Department. The balance of the income shall be awarded by the Director of Financial Aid to an outstanding student at the end of her junior year who is majoring in chemistry and who has financial need. The students receiving financial aid from this fund shall be informed of the source of the award. \$5,100.

Bettina Buonocore Salvo Prize Fund (1966).

By bequest of Bettina Buonocore Salvo '16. Awarded annually to a deserving graduate or other student studying Italian, selected by the Department of Italian. Income on \$5,000.

Sylvia Kopald Selekman Prize Fund (1960).

In memory of Sylvia Kopald Selekman '20, by Janet Robb. Awarded by the Department of Economics to the freshman who is doing the best work in introductory economics. Income on \$1,000.

Henry Sharp Prize Fund (1970).

Established in memory of Henry Sharp, Professor of Geology at Barnard College from 1941 to 1967, by gifts of alumnae, family and

friends. Awarded annually to an outstanding student majoring in the program on Environmental Conservation and Management. Income on \$2,705.

Spanish Prize (1959).

A prize of \$100 awarded annually to a Spanish major who, in the opinion of the Department, has done the most distinguished work in Spanish language and literature. \$2,500.

Speranza Italian Prize Fund (1911).

In memory of Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard College from 1890 to 1911, by a former student. Awarded to a student for excellence in Italian. Income on \$1,000.

Stains-Berle Prize Fund in Anglo-Saxon (1968).

In memory of her grandmothers, Caroline Foy Stains and Katharina Mohrherr Berle and in honor of Professor Cabell Greet, by Katherine G. Stains '52. Awarded annually to an undergraduate student for excellence in Anglo-Saxon language and literature. Income on \$1,000.

Jean Willard Tatlock Memorial Prize Fund (1917).

In memory of Jean Willard Tatlock '95, by her friends. Awarded to the undergraduate student most proficient in Latin. Income on \$1,250.

Rosemary Thomas Prize Fund in French (1966).

In honor of the poet Rosemary Thomas, by bequest of Helen Marie Carlson, a long-time member of the Barnard College French Department, awarded annually to the undergraduate student preferably, but not necessarily, a French major, who, in the opinion of the members of the Barnard College French Department, has shown the greatest evidence of a special sensitivity and awareness in her study of French poetic literature. Income on \$10,050.

Von Wahl Prize (1915).

In memory of Constance von Wahl, '12, President of the Undergraduate Association. Awarded to a student for excellence in biology, on the understanding that it is to be used to advance her knowledge in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded. Income on \$1,300.

Virginia B. Wright Art History Prize Fund (1969).

Awarded to the most promising senior majoring in Art History. Income on \$1,540.

The following prizes of Columbia University are by their terms open to students of Barnard College:

The Academy of American Poets Prize.

A prize of \$100, established by the Academy of American Poets for the best poem or group of poems by a student. Awarded by the Department of English of Columbia University at the close of the Spring Term. Manuscripts should be submitted prior to March 15. For further information consult the Chairman of the Department of English and Comparative Literature of the University.

James Gordon Bennett Prize.

A prize of \$175 established through a gift from James Gordon Bennett may be awarded by the Faculty of Political Science, with

the approval of the Chairman of the Bennett Prize Committee, for the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a Bachelor's degree who pursue satisfactory courses in political science. Manuscripts should be submitted prior to the last day of classes of the Spring Term. For additional information consult Professor Joseph A. Rothschild.

The Bunner Medal.

The H. C. Bunner Gold Medal, in memory of Henry Cuyler Bunner, is awarded at Commencement to the candidate for a Columbia degree who shall present the best essay on any topic dealing with American literature selected in connection with course or seminar work in American literature and approved by the Chairman of the Bunner Prize Committee. For additional information consult the Departmental Representative for English and Comparative Literature of Columbia University.

Robert Emmett Dolan Prize.

A cash prize awarded annually by the Department of Music to help a student in any division of the University in paying for instruction on a chosen musical instrument. The award was established by an anonymous donor in memory of Robert Emmett Dolan. For further details see the Departmental Representative for Music.

Earle Prize in Classics.

A prize of \$150, in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900 and Professor of Classical Philology from 1900 to 1905, is awarded to a candidate for the degree of Bachelor of Arts, for excellence in sight translation of passages of Greek and Latin. For further information consult Professor James A. Coulter.

The Caroline Phelps Stokes Prize.

The Caroline Phelps Stokes Prize of \$100 is awarded at Commencement to that student who has been a degree candidate for at least one academic year in Columbia College or Barnard College and who has written the best essay on any topic approved by the Stokes Prize Committee, which has been presented in course or seminar work. Material should be submitted by January 1. For additional information consult the Departmental Representative for Political Science.

Van Rensselaer Prize.

To the candidate for a degree in Columbia University who is the author of the best example of English lyric verse. Material must be submitted by April 1. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages. Income of the Marianna Griswold Van Rensselaer Fund, about \$50. For additional details consult the Department of English and Comparative Literature.

George Edward Woodberry Prize.

Established by the Woodberry Society as a memorial to George Edward Woodberry. Awarded every second year to an undergraduate student of the University for the best original poem. Material must be submitted by April 1. Value of prize about \$100. For additional

details consult the Department of English and Comparative Literature.

The following prize is also open to Barnard students:

Susan Huntington Vernon Prize.

A prize of about \$25, the annual income of the fund established in 1941 by pupils and friends of Mrs. Vernon, in tribute to her work at the Hispanic Institute, and augmented by her in 1943. The prize is awarded, on recommendation of the Chairman of the Department of Spanish, for the best original essay written in Spanish by a senior whose native language is not Spanish, but who is taking language courses at Barnard, Mount Holyoke, Radcliffe, Smith, Vassar, or Wellesley.



The Associate Alumnae of Barnard College is made up of sixteen thousand members from all states of the Union and more than sixty foreign countries. The Associate Alumnae serve the College in three important ways: by interpreting Barnard to the community; by keeping local secondary school students informed about Barnard; and by aiding in the support of the College.

The Associate Alumnae functions through a group of officers, directors, and alumnae trustees elected by members of the Association. The central office of the Associate Alumnae is in 115 Milbank Hall.

Barnard College Clubs, the Alumnae Council with nationwide membership, and a group of qualified and authorized alumnae make it possible to find spokesmen for Barnard at distances far from New York. Students who are considering Barnard may find it helpful to talk personally with the Barnard Area Representative living nearest them. A list of these representatives as well as officers of the Associate Alumnae is given below.

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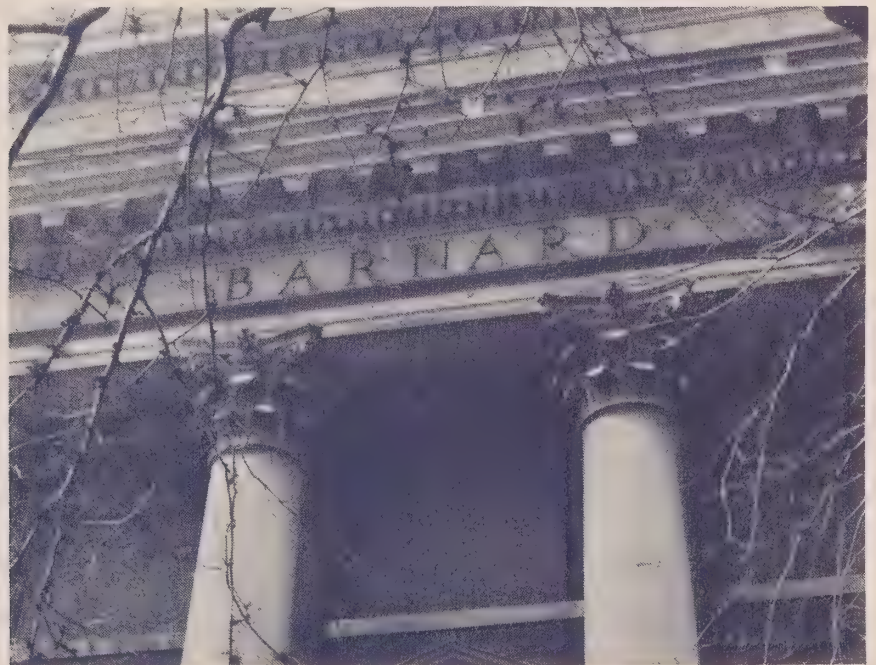
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	1889 to 1890	1899 to 1900	1909 to 1910	1914 to 1915	1919 to 1920	1924 to 1925	1929 to 1930	1934 to 1935	1939 to 1940	1944 to 1945	1949 to 1950	1954 to 1955	1967 to 1968	1968 to 1969	1969 to 1970	1970 to 1971	1971 to 1972	1972 to 1973
Undergraduates, Regular																		
Seniors	....	40	62	123	87	126	227	181	164	208	260	245	437	420	433	468	490	477
Juniors	....	40	122	110	190	259	237	220	191	314	277	340	522	568	480	515	512	548
Sophomores	....	37	109	191	193	234	247	226	210	314	272	317	475	493	517	515	542	498
Freshmen	14	54	188	240	224	271	311	267	246	324	271	304	457	458	485	476	455	470
Unclassified students	....	....	....	....	....	57	54	103	143	56	17	1	23	23	21	16	2	24
<hr/>																		
14	171	481	664	664	694	947	1076	997	954	1216	1097	1207	1914	1962	1936	1990	2001	2017
<hr/>																		
Special Students:																		
Matriculated	....	21	24	32	39	....	....	....	....	....	....	....	....	....	....	....	....	....
Nonmatriculated	....	....	30	32	22	33	28	29	31	21	15	20	21	27	22	33	27	32
Departmental (1889-1896)	22	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Music students	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
(1896-1904, 1914-1915)	....	41	....	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....
<hr/>																		
22	62	54	69	61	61	33	28	29	31	21	15	20	21	27	22	33	27	32
<hr/>																		
....	82	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
<hr/>																		
36	315	535	733	755	755	980	1104	1026	985	1237	1112	1227	1935	1989	1958	2023	2028	2049
<hr/>																		
Degrees Conferred:																		
A.B.	....	39	88	141	139	198	247	221	206	270	303	258	452	502	437	468	491	....
B.S. (1909-1918)	....	....	2	8	5	....	....	....	....	....	....	....	....	....	....	....	....	....
A.M. (1898-1900)	....	18	....	....	....	A.M.	....	....	....	....	....	....	....	....	....	....	....	....
Ph.D. (1899-1900)	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Total Bachelor's Degrees conferred 1893-1972: A.B., 16,709; B.S., 77.
† These figures represent registration in the Autumn Term plus students admitted in the Spring Term.

Group (1) M W F 9

Biology 1-2
 Biology 6
 Economics 17, 18
 Philosophy 1x; 1y (I)

Group (2) M W F 10

Chemistry 61; 62
 Classical Literature 32x
 Economics 1 (I); 1y (I)
 Economics 2y (I)
 Economics 20
 English 67
 English 74
 English 90
 French 20 (I)
 French 20x (I)
 French 22x
 French 39
 French 44
 German 4x
 German 7, 8
 Greek 11
 History 51; 52
 Latin 3
 Latin 4
 Mathematics 7, 8
 Philosophy 1x, 1y (II)
 Philosophy 35, 36
 Philosophy 61
 Psychology 12
 Psychology 21
 Sociology 21
 Spanish 3y
 Spanish 6x
 Spanish 32

Group (3) M W F 11

Art History 57, 58
 Art History 62
 Biology 13y
 Chemistry 31
 Chemistry 32
 Chemistry 36
 Economics 1 (II); 1y (II)
 Economics 2y (II)
 Economics 22
 English 63, 64
 English 89
 French 20 (II)
 French 21y
 French 31
 German 11
 German 14
 Greek 12
 Latin 1-2
 Philosophy 1x; 1y (III)

Philosophy 43, 44
 Political Science 1 (I)
 Political Science 2
 Psychology 9; 9y
 Psychology 30
 Sociology 36
 Sociology 52
 Spanish 4x
 Spanish 11y (I)
 Spanish 14
 Spanish 31
 Studies in the Humanities 7

Group (4) M W F 1:10

Art History 1, 2
 Art History 60
 Biology 8
 Biology 16x
 Biology 22
 English 41, 42
 English 59-60 (I)
 English 65
 English 66
 French 38
 Geography 33
 German 3y
 Philosophy 5
 Philosophy 82
 Philosophy 84
 Psychology 17
 Psychology 27; 27y
 Sociology 38
 Sociology 46x
 Spanish 11 (I)
 Spanish 11y (II)
 Spanish 18

Group (5) M W F 2:10

Art History 77
 Art History 78
 Biology 10
 Economics 25, 26
 English 88
 French 12
 German 50
 History 65
 Latin 33y
 Music 1-2 (I)
 Philosophy 50
 Philosophy 79
 Political Science 1 (II)
 Political Science 11
 Sociology 34
 Spanish 2x
 Spanish 25; 26
 Studies in the Humanities 6

Group (6) Tu Th 9:10-10:25

Chemistry 1; 2
 Chemistry 30
 Economics 1 (III); 1y (III)
 Economics 2y (III)
 English 76
 English 79
 History 14
 History 15
 History 64
 Political Science 25
 Political Science 26
 Psychology 25
 Psychology 38
 Religion 64
 Sociology 33

Group (7) Tu Th 10:35-11:50

Art History 46
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 History 25; 26
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 Philosophy 34
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 Political Science 23; 24
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 Psychology 44
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 Religion 54
 Sociology 40
 Sociology 43
 Sociology 50
 Spanish 13
 Spanish 20

Group (8) Tu Th 11

Biology 5

Biology 7
 Psychology 5; 8
 Psychology 68
 Sociology 1, 2

Group (9) Tu Th 2:10-3:25

Art History 83
 Economics 7; 8
 Economics 10
 Economics 16
 English 80
 English 83
 Geography 4
 German 46
 German 55y; 56x
 History 11; 12
 History 21
 History 22
 History 35
 Mathematics 31y
 Modern Greek 3; 4
 Philosophy 32
 Philosophy 73
 Political Science 1 (III)
 Psychology 34x
 Religion 25; 26
 Sociology 32
 Sociology 39
 Spanish 17
 Spanish 23y
 Studies in the Humanities 5

Group (10) M W F 3:10

Art History 84
 English 59-60 (II)
 English 84
 Geography 3

Group (11)

Psychology 1x; 1y (Sections)

Group (12) M W F 12:00

English 71
 French 20x (II)
 French 48
 Philosophy 1x; 1y (V)

Group (13) Tu Th 3:00-5:00

Art History 51, 52
 Art History 64
 Art History 69
 English 59-60 (III)
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Group (14)

French 1-2 (Sections)
 French 2x (Sections)
 French 3; 3y (Sections)
 French 4; 4x (Sections)
 French 21, 22 (Sections)

Group (15)

German 3; 4 (Sections)

Group (16)

Spanish 3, 4 (Sections)

Group (17) M W F 4:00-6:00

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Group (18) Th 1:10

Chemistry 33

Group (0)

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 English 33, 34
 English 35, 36
 English 40x; 40y (Sections)
 English 82
 English 93; 93y
 English 96

English 97; 98 (Sections)

Environmental Conservation 41y

Environmental Conservation 46

Environmental Conservation 48

Environmental Conservation

51, 52

Environmental Conservation

69, 70

French 6x

French 11

French 16

French 51; 52

French 59-60

Geography 59, 60

Geology 60

German 1-2 (Sections)

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German 5

German 61; 62

Greek-Latin 61y, 62x

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History 30

History 31

History 36; 37

History 44

History 45

History 47

History 55

History 66

History 67

History 68

History 75; 76

History 80

History 81

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Political Science 18

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Political Science 29y

Political Science 31y

Political Science 33

Political Science 61-62 (Sections)

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